

**RRB ALP  
CBT-II**

**Previous Year Paper  
(Mechanic Diesel)  
02 May, 2025 Shift 2**



Adda247

# Test Prime

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Roll Number	
Candidate Name	
Test Center Name	
Community	
Test Date	02/05/2025
Test Time	2:30 PM - 5:00 PM
Subject	Mechanic Diesel
Application Photograph	
Exam Day Photograph	

\* Note

Correct Answer will carry 1 mark per Question.  
Incorrect Answer will carry 1/3 Negative mark per Question.

- Options shown in green color with a tick icon are correct.
- Chosen option on the right of the question indicates the option selected by the candidate.

Section : PART-A

<p><b>Q.1</b> Which of the following correctly identifies the main components of a standard email structure?</p> <p><b>Ans</b> <input type="checkbox"/> 1. Recipient Address, CC, BCC and Attachment</p> <p><input checked="" type="checkbox"/> 2. Subject Line, Recipient Address, Message Body and Signature</p> <p><input type="checkbox"/> 3. Username, Password, Message Body and Signature</p> <p><input type="checkbox"/> 4. Header, Body, Footer and Encryption Key</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156679</td></tr> <tr><td>Option 1 ID :</td><td>441009621881</td></tr> <tr><td>Option 2 ID :</td><td>441009621880</td></tr> <tr><td>Option 3 ID :</td><td>441009621882</td></tr> <tr><td>Option 4 ID :</td><td>441009621879</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>	Question Type :	MCQ	Question ID :	441009156679	Option 1 ID :	441009621881	Option 2 ID :	441009621880	Option 3 ID :	441009621882	Option 4 ID :	441009621879	Status :	Not Answered	Chosen Option :	--
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Option 2 ID :	441009621880																
Option 3 ID :	441009621882																
Option 4 ID :	441009621879																
Status :	Not Answered																
Chosen Option :	--																
<p><b>Q.2</b> If a ball is thrown upwards, the work done by the gravitational force on the ball is _____.</p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. negative</p> <p><input type="checkbox"/> 2. positive</p> <p><input type="checkbox"/> 3. independent of the displacement of the ball</p> <p><input type="checkbox"/> 4. zero</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153534</td></tr> <tr><td>Option 1 ID :</td><td>441009609306</td></tr> <tr><td>Option 2 ID :</td><td>441009609309</td></tr> <tr><td>Option 3 ID :</td><td>441009609308</td></tr> <tr><td>Option 4 ID :</td><td>441009609307</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>	Question Type :	MCQ	Question ID :	441009153534	Option 1 ID :	441009609306	Option 2 ID :	441009609309	Option 3 ID :	441009609308	Option 4 ID :	441009609307	Status :	Answered	Chosen Option :	1
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Option 2 ID :	441009609309																
Option 3 ID :	441009609308																
Option 4 ID :	441009609307																
Status :	Answered																
Chosen Option :	1																
<p><b>Q.3</b> For a given potential difference (V), current (I) and resistance (R) across a conductor, Ohm's law is represented as:</p> <p><b>Ans</b> <input type="checkbox"/> 1. <math>V = I + R</math></p> <p><input type="checkbox"/> 2. <math>V = I - R</math></p> <p><input checked="" type="checkbox"/> 3. <math>V = IR</math></p> <p><input type="checkbox"/> 4. <math>I = VR</math></p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153539</td></tr> <tr><td>Option 1 ID :</td><td>441009609329</td></tr> <tr><td>Option 2 ID :</td><td>441009609328</td></tr> <tr><td>Option 3 ID :</td><td>441009609327</td></tr> <tr><td>Option 4 ID :</td><td>441009609326</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>	Question Type :	MCQ	Question ID :	441009153539	Option 1 ID :	441009609329	Option 2 ID :	441009609328	Option 3 ID :	441009609327	Option 4 ID :	441009609326	Status :	Answered	Chosen Option :	3
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Option 2 ID :	441009609328																
Option 3 ID :	441009609327																
Option 4 ID :	441009609326																
Status :	Answered																
Chosen Option :	3																

**Q.4** There is a rectangular sheet whose dimensions are  $15.2 \text{ cm} \pm 0.1 \text{ cm}$  in length and  $9.1 \text{ cm} \pm 0.1 \text{ cm}$  in width. What is the error in the estimation of the area of the rectangular sheet?

- Ans**
- 1.  $2 \text{ cm}^2$
  - 2.  $13 \text{ cm}^2$
  - 3.  $0.3 \text{ cm}^2$
  - 4.  $5 \text{ cm}^2$

Question Type : **MCQ**

Question ID : **441009153572**

Option 1 ID : **441009609458**

Option 2 ID : **441009609459**

Option 3 ID : **441009609461**

Option 4 ID : **441009609460**

Status : **Not Answered**

Chosen Option : **--**

**Q.5** How does the thermal pollution of water affect the water quality?

- Ans**
- 1. Alters the colour of water
  - 2. Oxygen level in water gets reduced
  - 3. Sediments get settled soon
  - 4. Increases pH of water

Question Type : **MCQ**

Question ID : **441009158541**

Option 1 ID : **441009629101**

Option 2 ID : **441009629100**

Option 3 ID : **441009629102**

Option 4 ID : **441009629099**

Status : **Answered**

Chosen Option : **2**

**Q.6** Samir takes 6 days to complete a piece of work, while Tanvir can complete it in 8 days. If Amir also joins them, together, the trio can complete the entire work in 3 days. If a total sum of ₹2,400 is to be paid for the job, how much will Amir receive for his contribution?

- Ans**
- 1. ₹300
  - 2. ₹430
  - 3. ₹340
  - 4. ₹250

Question Type : **MCQ**

Question ID : **441009160925**

Option 1 ID : **441009637406**

Option 2 ID : **441009637408**

Option 3 ID : **441009637407**

Option 4 ID : **441009637405**

Status : **Answered**

Chosen Option : **1**

<b>Q.7</b>	What is the primary purpose of information kiosks set up by the government?																	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. To provide free food and beverages to citizens <input checked="" type="checkbox"/> 2. To offer citizens easy access to information and services such as bill payments, registrations and public information <input checked="" type="checkbox"/> 3. To enable government employees to monitor social media activities of citizens <input checked="" type="checkbox"/> 4. To allow citizens to participate in online gaming competitions																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156673</td></tr> <tr><td>Option 1 ID :</td><td>441009621855</td></tr> <tr><td>Option 2 ID :</td><td>441009621856</td></tr> <tr><td>Option 3 ID :</td><td>441009621858</td></tr> <tr><td>Option 4 ID :</td><td>441009621857</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>	Question Type :	MCQ	Question ID :	441009156673	Option 1 ID :	441009621855	Option 2 ID :	441009621856	Option 3 ID :	441009621858	Option 4 ID :	441009621857	Status :	Answered	Chosen Option :	2
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Option 2 ID :	441009621856																	
Option 3 ID :	441009621858																	
Option 4 ID :	441009621857																	
Status :	Answered																	
Chosen Option :	2																	
<b>Q.8</b>	Which of the following units are used to measure only fundamental physical quantities?																	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Base units <input checked="" type="checkbox"/> 2. Derived units <input checked="" type="checkbox"/> 3. Neither base nor derived units <input checked="" type="checkbox"/> 4. Both base and derived units																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153574</td></tr> <tr><td>Option 1 ID :</td><td>441009609466</td></tr> <tr><td>Option 2 ID :</td><td>441009609467</td></tr> <tr><td>Option 3 ID :</td><td>441009609469</td></tr> <tr><td>Option 4 ID :</td><td>441009609468</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>	Question Type :	MCQ	Question ID :	441009153574	Option 1 ID :	441009609466	Option 2 ID :	441009609467	Option 3 ID :	441009609469	Option 4 ID :	441009609468	Status :	Answered	Chosen Option :	1
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Option 1 ID :	441009609466																	
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Option 3 ID :	441009609469																	
Option 4 ID :	441009609468																	
Status :	Answered																	
Chosen Option :	1																	
<b>Q.9</b>	Kaushik starts from Point A and walks 32 m towards the east. He takes a right turn, walks 16 m and then takes a right turn, walks 14 m, reaches Point B and stops. Chitra starts from Point Z which is 60 m towards the east of Point A. She walks 18 m towards north, takes a right turn, walks 19 m, turns right and walks 65 m, turns right and walks 61 m and stops at Point Y. What is the shortest distance between Point B and Point Y? (All turns are 90 degree turns only.)																	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 31 m <input checked="" type="checkbox"/> 2. 33 m <input checked="" type="checkbox"/> 3. 29 m <input checked="" type="checkbox"/> 4. 25 m																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155635</td></tr> <tr><td>Option 1 ID :</td><td>441009617710</td></tr> <tr><td>Option 2 ID :</td><td>441009617707</td></tr> <tr><td>Option 3 ID :</td><td>441009617708</td></tr> <tr><td>Option 4 ID :</td><td>441009617709</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>	Question Type :	MCQ	Question ID :	441009155635	Option 1 ID :	441009617710	Option 2 ID :	441009617707	Option 3 ID :	441009617708	Option 4 ID :	441009617709	Status :	Not Answered	Chosen Option :	--
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Option 1 ID :	441009617710																	
Option 2 ID :	441009617707																	
Option 3 ID :	441009617708																	
Option 4 ID :	441009617709																	
Status :	Not Answered																	
Chosen Option :	--																	

Q.1 0	Which of the following factors affect(s) the resistance of a wire?																
Ans	<input checked="" type="checkbox"/> 1. The length, cross-sectional area and material of the wire <input type="checkbox"/> 2. Only length of the wire <input type="checkbox"/> 3. Only length and cross-sectional area of the wire <input type="checkbox"/> 4. Only material of the wire																
<table border="1"> <tr> <td>Question Type :</td> <td>MCQ</td> </tr> <tr> <td>Question ID :</td> <td>441009160693</td> </tr> <tr> <td>Option 1 ID :</td> <td>441009636560</td> </tr> <tr> <td>Option 2 ID :</td> <td>441009636557</td> </tr> <tr> <td>Option 3 ID :</td> <td>441009636559</td> </tr> <tr> <td>Option 4 ID :</td> <td>441009636558</td> </tr> <tr> <td>Status :</td> <td>Answered</td> </tr> <tr> <td>Chosen Option :</td> <td>1</td> </tr> </table>		Question Type :	MCQ	Question ID :	441009160693	Option 1 ID :	441009636560	Option 2 ID :	441009636557	Option 3 ID :	441009636559	Option 4 ID :	441009636558	Status :	Answered	Chosen Option :	1
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Option 1 ID :	441009636560																
Option 2 ID :	441009636557																
Option 3 ID :	441009636559																
Option 4 ID :	441009636558																
Status :	Answered																
Chosen Option :	1																
Q.1 1	<p>कार्यशाला में सामान्य सुरक्षा के संबंध में निम्नलिखित में से कौन से कथन सत्य हैं?</p> <p>कथन 1: जॉब के लिए किसी भी उपलब्ध औजार का उपयोग करना, भले ही वह सही उपकरण न हो।            कथन 2: उपयोग के बाद औजारों को उनके उचित स्थान पर रखना।            कथन 3: मशीन चालू रहने पर उसे साफ करना।            कथन 4: पुराने/टूटे फूटे या क्षतिग्रस्त औजारों को तुरंत बदलना।</p>																
Ans	<input type="checkbox"/> 1. कथन 3 और 4 सत्य हैं। <input checked="" type="checkbox"/> 2. कथन 2 और 4 सत्य हैं। <input type="checkbox"/> 3. कथन 1 और 3 सत्य हैं। <input type="checkbox"/> 4. कथन 1 और 2 सत्य हैं।																
<table border="1"> <tr> <td>Question Type :</td> <td>MCQ</td> </tr> <tr> <td>Question ID :</td> <td>441009156622</td> </tr> <tr> <td>Option 1 ID :</td> <td>441009621654</td> </tr> <tr> <td>Option 2 ID :</td> <td>441009621652</td> </tr> <tr> <td>Option 3 ID :</td> <td>441009621651</td> </tr> <tr> <td>Option 4 ID :</td> <td>441009621653</td> </tr> <tr> <td>Status :</td> <td>Answered</td> </tr> <tr> <td>Chosen Option :</td> <td>2</td> </tr> </table>		Question Type :	MCQ	Question ID :	441009156622	Option 1 ID :	441009621654	Option 2 ID :	441009621652	Option 3 ID :	441009621651	Option 4 ID :	441009621653	Status :	Answered	Chosen Option :	2
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Option 2 ID :	441009621652																
Option 3 ID :	441009621651																
Option 4 ID :	441009621653																
Status :	Answered																
Chosen Option :	2																

**Q.1** Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets?

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

68 – 136 – 121 – 363; 29 – 58 – 43 – 129

- Ans**
- 1. 13 – 26 – 46 – 138
  - 2. 73 – 146 – 114 – 228
  - 3. 42 – 84 – 74 – 222
  - 4. 35 – 70 – 55 – 165

Question Type : **MCQ**

Question ID : 441009155597

Option 1 ID : 441009617555

Option 2 ID : 441009617558

Option 3 ID : 441009617556

Option 4 ID : 441009617557

Status : **Not Attempted and Marked For Review**

Chosen Option : --

**Q.1** Study the table given below and answer the following question.

3

	Number of mangoes sold on		
	Monday	Tuesday	Wednesday
Shop X	58	19	25
Shop Y	42	34	30

If one mango was sold for ₹80 by shop Y on Tuesday, what was the amount received by shop Y on Tuesday?

- Ans**
- 1. ₹2,720
  - 2. ₹2,780
  - 3. ₹2,620
  - 4. ₹2,560

Question Type : **MCQ**

Question ID : 441009160818

Option 1 ID : 441009636996

Option 2 ID : 441009636999

Option 3 ID : 441009636998

Option 4 ID : 441009636997

Status : **Answered**

Chosen Option : 1

**Q.1** 5 men or 9 women can do a job in 9 days. 5 men work for 7 days and leave. The number  
4 of women required to complete the remaining work in 9 days is:

- Ans**
- 1. 5
  - 2. 1
  - 3. 2
  - 4. 4

Question Type :	MCQ
Question ID :	441009160909
Option 1 ID :	441009637344
Option 2 ID :	441009637342
Option 3 ID :	441009637341
Option 4 ID :	441009637343
Status :	Answered
Chosen Option :	3

**Q.1** Mechanical energy is the sum of \_\_\_\_\_.  
5

- Ans**
- 1. heat energy and chemical energy
  - 2. electrical energy and light energy
  - 3. chemical energy and electrical energy
  - 4. potential energy and kinetic energy

Question Type :	MCQ
Question ID :	441009153511
Option 1 ID :	441009609214
Option 2 ID :	441009609215
Option 3 ID :	441009609217
Option 4 ID :	441009609216
Status :	Answered
Chosen Option :	4

**Q.1** Which of the following terms describes the process of the gradual increase in the  
6 average temperature of the Earth's atmosphere, due to the greenhouse effect caused by increased levels of carbon dioxide, CFCs and other pollutants?

- Ans**
- 1. Ozone depletion
  - 2. Global warming
  - 3. Acid rain
  - 4. Deforestation

Question Type :	MCQ
Question ID :	441009158530
Option 1 ID :	441009629055
Option 2 ID :	441009629056
Option 3 ID :	441009629057
Option 4 ID :	441009629058
Status :	Answered
Chosen Option :	2

Q.1 7	A, B, C, D, E, F and G are sitting around a circular table facing the centre. Only two people sit between G and C when counted from the left of C. F sits third to the left of E. B sits to the immediate right of E. B sits second to the left of G. D is an immediate neighbour of F. How many people sit between A and C when counted from the right of C?
Ans	<input checked="" type="checkbox"/> 1. 3 <input checked="" type="checkbox"/> 2. 1 <input checked="" type="checkbox"/> 3. 2 <input checked="" type="checkbox"/> 4. 4

Question Type :	MCQ
Question ID :	441009155631
Option 1 ID :	441009617693
Option 2 ID :	441009617691
Option 3 ID :	441009617692
Option 4 ID :	441009617694
Status :	Not Attempted and Marked For Review
Chosen Option :	--

  

Q.1 8	The resistance of a uniform metallic conductor depends on its:
Ans	<input checked="" type="checkbox"/> 1. melting point only <input checked="" type="checkbox"/> 2. area of cross-section only <input checked="" type="checkbox"/> 3. length only <input checked="" type="checkbox"/> 4. length, area of cross-section, and nature of its material

Question Type :	MCQ
Question ID :	441009153520
Option 1 ID :	441009609251
Option 2 ID :	441009609252
Option 3 ID :	441009609250
Option 4 ID :	441009609253
Status :	Answered
Chosen Option :	4

<b>Q.1</b>	Reeta invests a certain sum of money at a certain rate of simple interest per annum, and the interest she gets is equal to one-fourth of the sum invested. If the time period (in years) of investment is equal to the percentage rate of interest per annum, for how many years did Reeta invest the sum of money?
<b>9</b>	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 7 <input checked="" type="checkbox"/> 2. 5 <input checked="" type="checkbox"/> 3. 6 <input checked="" type="checkbox"/> 4. 4

Question Type :	MCQ
Question ID :	441009160924
Option 1 ID :	441009637403
Option 2 ID :	441009637402
Option 3 ID :	441009637401
Option 4 ID :	441009637404
Status :	Not Attempted and Marked For Review
Chosen Option :	--

<b>Q.2</b>	An auto A covers a distance in 2 hours at the speed of 42 km/hr. Another auto B covers twice the distance covered by A in 5 hours. What is the speed of auto B (in km/hr)?
<b>0</b>	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 34.2 <input checked="" type="checkbox"/> 2. 36.3 <input checked="" type="checkbox"/> 3. 33.6 <input checked="" type="checkbox"/> 4. 31.2

Question Type :	MCQ
Question ID :	441009153637
Option 1 ID :	441009609719
Option 2 ID :	441009609720
Option 3 ID :	441009609718
Option 4 ID :	441009609721
Status :	Answered
Chosen Option :	3

<b>Q.2</b>	What should come in place of the question mark (?) in the given series?
<b>1</b>	67 106 88 127 109 148 ?
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 126 <input checked="" type="checkbox"/> 2. 130 <input checked="" type="checkbox"/> 3. 108 <input checked="" type="checkbox"/> 4. 117

Question Type :	MCQ
Question ID :	441009155608
Option 1 ID :	441009617600
Option 2 ID :	441009617601
Option 3 ID :	441009617602
Option 4 ID :	441009617599
Status :	Answered
Chosen Option :	2

<p><b>Q.2</b> 2</p>	<p>By how much is 60% of 45 greater than <math>\frac{4}{5}</math> of 25?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 1</p> <p><input type="checkbox"/> 2. 4</p> <p><input checked="" type="checkbox"/> 3. 7</p> <p><input type="checkbox"/> 4. 5</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153630</td></tr> <tr><td>Option 1 ID :</td><td>441009609692</td></tr> <tr><td>Option 2 ID :</td><td>441009609691</td></tr> <tr><td>Option 3 ID :</td><td>441009609690</td></tr> <tr><td>Option 4 ID :</td><td>441009609693</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </tbody> </table>			Question Type :	MCQ	Question ID :	441009153630	Option 1 ID :	441009609692	Option 2 ID :	441009609691	Option 3 ID :	441009609690	Option 4 ID :	441009609693	Status :	Answered	Chosen Option :	3
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Option 3 ID :	441009609690																	
Option 4 ID :	441009609693																	
Status :	Answered																	
Chosen Option :	3																	
<p><b>Q.2</b> 3</p>	<p>Find the four-digit dividend of 21, 42, 147 and 105 that will give the remainder 14, 35, 140 and 98, respectively.</p>																	
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. 8813</p> <p><input type="checkbox"/> 2. 8034</p> <p><input type="checkbox"/> 3. 8816</p> <p><input type="checkbox"/> 4. 8019</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153648</td></tr> <tr><td>Option 1 ID :</td><td>441009609762</td></tr> <tr><td>Option 2 ID :</td><td>441009609763</td></tr> <tr><td>Option 3 ID :</td><td>441009609765</td></tr> <tr><td>Option 4 ID :</td><td>441009609764</td></tr> <tr><td>Status :</td><td>Not Attempted and Marked For Review</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </tbody> </table>			Question Type :	MCQ	Question ID :	441009153648	Option 1 ID :	441009609762	Option 2 ID :	441009609763	Option 3 ID :	441009609765	Option 4 ID :	441009609764	Status :	Not Attempted and Marked For Review	Chosen Option :	--
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Question ID :	441009153648																	
Option 1 ID :	441009609762																	
Option 2 ID :	441009609763																	
Option 3 ID :	441009609765																	
Option 4 ID :	441009609764																	
Status :	Not Attempted and Marked For Review																	
Chosen Option :	--																	
<p><b>Q.2</b> 4</p>	<p>A car starts from New Delhi and travels to Agra. The distance between the two cities is 300 km. The car travels back to New Delhi. What is the total distance travelled and the displacement of the car? (Assume the car reaches the same point and the route followed is exactly same for both travels.)</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. Distance travelled is 0 km and displacement is 0 km</p> <p><input checked="" type="checkbox"/> 2. Distance travelled is 600 km and displacement is 0 km</p> <p><input type="checkbox"/> 3. Distance travelled is 300 km and displacement is 0 km</p> <p><input type="checkbox"/> 4. Distance travelled is 0 km and displacement is 600 km</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153541</td></tr> <tr><td>Option 1 ID :</td><td>441009609334</td></tr> <tr><td>Option 2 ID :</td><td>441009609335</td></tr> <tr><td>Option 3 ID :</td><td>441009609336</td></tr> <tr><td>Option 4 ID :</td><td>441009609337</td></tr> <tr><td>Status :</td><td>Not Attempted and Marked For Review</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </tbody> </table>			Question Type :	MCQ	Question ID :	441009153541	Option 1 ID :	441009609334	Option 2 ID :	441009609335	Option 3 ID :	441009609336	Option 4 ID :	441009609337	Status :	Not Attempted and Marked For Review	Chosen Option :	--
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Question ID :	441009153541																	
Option 1 ID :	441009609334																	
Option 2 ID :	441009609335																	
Option 3 ID :	441009609336																	
Option 4 ID :	441009609337																	
Status :	Not Attempted and Marked For Review																	
Chosen Option :	--																	

Q.2 5	A rheostat in the electrical circuit is used to _____.																	
Ans	<input checked="" type="checkbox"/> 1. measure the voltage only <input checked="" type="checkbox"/> 2. measure the current and voltage both <input checked="" type="checkbox"/> 3. change the resistance in the circuit <input checked="" type="checkbox"/> 4. measure the current only																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153523</td></tr> <tr><td>Option 1 ID :</td><td>441009609263</td></tr> <tr><td>Option 2 ID :</td><td>441009609265</td></tr> <tr><td>Option 3 ID :</td><td>441009609264</td></tr> <tr><td>Option 4 ID :</td><td>441009609262</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>	Question Type :	MCQ	Question ID :	441009153523	Option 1 ID :	441009609263	Option 2 ID :	441009609265	Option 3 ID :	441009609264	Option 4 ID :	441009609262	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																	
Question ID :	441009153523																	
Option 1 ID :	441009609263																	
Option 2 ID :	441009609265																	
Option 3 ID :	441009609264																	
Option 4 ID :	441009609262																	
Status :	Not Answered																	
Chosen Option :	--																	
Q.2 6	Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)																	
Ans	<input checked="" type="checkbox"/> 1. WC – UL <input checked="" type="checkbox"/> 2. DJ – BT <input checked="" type="checkbox"/> 3. MS – KB <input checked="" type="checkbox"/> 4. TZ – RI																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160827</td></tr> <tr><td>Option 1 ID :</td><td>441009637032</td></tr> <tr><td>Option 2 ID :</td><td>441009637033</td></tr> <tr><td>Option 3 ID :</td><td>441009637034</td></tr> <tr><td>Option 4 ID :</td><td>441009637035</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>	Question Type :	MCQ	Question ID :	441009160827	Option 1 ID :	441009637032	Option 2 ID :	441009637033	Option 3 ID :	441009637034	Option 4 ID :	441009637035	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																	
Question ID :	441009160827																	
Option 1 ID :	441009637032																	
Option 2 ID :	441009637033																	
Option 3 ID :	441009637034																	
Option 4 ID :	441009637035																	
Status :	Answered																	
Chosen Option :	2																	
Q.2 7	In a rare coin collection, there was one gold coin for every five non-gold coins. Then, 18 more gold coins were added to the collection, after which the ratio of gold coins to non-gold coins became 5 : 7. How many coins in all are now there in the collection?																	
Ans	<input checked="" type="checkbox"/> 1. 55 <input checked="" type="checkbox"/> 2. 75 <input checked="" type="checkbox"/> 3. 45 <input checked="" type="checkbox"/> 4. 60																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160908</td></tr> <tr><td>Option 1 ID :</td><td>441009637338</td></tr> <tr><td>Option 2 ID :</td><td>441009637340</td></tr> <tr><td>Option 3 ID :</td><td>441009637337</td></tr> <tr><td>Option 4 ID :</td><td>441009637339</td></tr> <tr><td>Status :</td><td>Not Attempted and Marked For Review</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>	Question Type :	MCQ	Question ID :	441009160908	Option 1 ID :	441009637338	Option 2 ID :	441009637340	Option 3 ID :	441009637337	Option 4 ID :	441009637339	Status :	Not Attempted and Marked For Review	Chosen Option :	--
Question Type :	MCQ																	
Question ID :	441009160908																	
Option 1 ID :	441009637338																	
Option 2 ID :	441009637340																	
Option 3 ID :	441009637337																	
Option 4 ID :	441009637339																	
Status :	Not Attempted and Marked For Review																	
Chosen Option :	--																	

Q.2	Which of the following statements is correct?																
8																	
Ans	<input checked="" type="checkbox"/> 1. Laboratory thermometer is used to measure human body temperature. <input checked="" type="checkbox"/> 2. The normal human body temperature is 98.6°F. <input checked="" type="checkbox"/> 3. The normal human body temperature is 45°C. <input checked="" type="checkbox"/> 4. There is no method to convert temperature from one temperature scale to another.																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160724</td></tr> <tr><td>Option 1 ID :</td><td>441009636681</td></tr> <tr><td>Option 2 ID :</td><td>441009636683</td></tr> <tr><td>Option 3 ID :</td><td>441009636682</td></tr> <tr><td>Option 4 ID :</td><td>441009636684</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009160724	Option 1 ID :	441009636681	Option 2 ID :	441009636683	Option 3 ID :	441009636682	Option 4 ID :	441009636684	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																
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Option 1 ID :	441009636681																
Option 2 ID :	441009636683																
Option 3 ID :	441009636682																
Option 4 ID :	441009636684																
Status :	Answered																
Chosen Option :	2																
Q.2	Which of the following is an example of preventive maintenance?																
9																	
Ans	<input checked="" type="checkbox"/> 1. Using equipment until failure occurs <input checked="" type="checkbox"/> 2. Waiting for a machine to break down before repairing it <input checked="" type="checkbox"/> 3. Conducting regular lubrication and inspections <input checked="" type="checkbox"/> 4. Ignoring minor faults to save costs																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156592</td></tr> <tr><td>Option 1 ID :</td><td>441009621534</td></tr> <tr><td>Option 2 ID :</td><td>441009621531</td></tr> <tr><td>Option 3 ID :</td><td>441009621532</td></tr> <tr><td>Option 4 ID :</td><td>441009621533</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156592	Option 1 ID :	441009621534	Option 2 ID :	441009621531	Option 3 ID :	441009621532	Option 4 ID :	441009621533	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																
Question ID :	441009156592																
Option 1 ID :	441009621534																
Option 2 ID :	441009621531																
Option 3 ID :	441009621532																
Option 4 ID :	441009621533																
Status :	Answered																
Chosen Option :	3																
Q.3	Simplify the following expression.																
0	$(x - y - z)^2 - (x + y + z)^2$																
Ans	<input checked="" type="checkbox"/> 1. $-4y(x + z)$ <input checked="" type="checkbox"/> 2. $-4x(y + z)$ <input checked="" type="checkbox"/> 3. $-4z(x + y)$ <input checked="" type="checkbox"/> 4. $-4(xy + yz + zx)$																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160907</td></tr> <tr><td>Option 1 ID :</td><td>441009637334</td></tr> <tr><td>Option 2 ID :</td><td>441009637336</td></tr> <tr><td>Option 3 ID :</td><td>441009637333</td></tr> <tr><td>Option 4 ID :</td><td>441009637335</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009160907	Option 1 ID :	441009637334	Option 2 ID :	441009637336	Option 3 ID :	441009637333	Option 4 ID :	441009637335	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																
Question ID :	441009160907																
Option 1 ID :	441009637334																
Option 2 ID :	441009637336																
Option 3 ID :	441009637333																
Option 4 ID :	441009637335																
Status :	Answered																
Chosen Option :	2																

**Q.3** A fruit seller had some apples. He sold 40% of the apples and now has 840 apples. How many apples did he originally have?

- Ans**
- 1. 2100
  - 2. 1400
  - 3. 1260
  - 4. 1800

Question Type :	MCQ
Question ID :	441009153627
Option 1 ID :	441009609679
Option 2 ID :	441009609678
Option 3 ID :	441009609680
Option 4 ID :	441009609681
Status :	Answered
Chosen Option :	2

**Q.3** The areas of three adjacent faces of a solid cuboid are  $190 \text{ cm}^2$ ,  $285 \text{ cm}^2$  and  $150 \text{ cm}^2$ . What is the volume (in  $\text{cm}^3$ ) of the cuboid?

- Ans**
- 1. 2850
  - 2. 2716
  - 3. 2896
  - 4. 3076

Question Type :	MCQ
Question ID :	441009153667
Option 1 ID :	441009609838
Option 2 ID :	441009609839
Option 3 ID :	441009609841
Option 4 ID :	441009609840
Status :	Not Answered
Chosen Option :	--

**Q.3** How many fundamental units are there in the SI system?

- Ans**
- 1. 14
  - 2. 5
  - 3. 10
  - 4. 7

Question Type :	MCQ
Question ID :	441009153563
Option 1 ID :	441009609425
Option 2 ID :	441009609422
Option 3 ID :	441009609424
Option 4 ID :	441009609423
Status :	Answered
Chosen Option :	4

Q.3 4	If a force of 6 N is applied on a body, which is displaced through 2 m in the direction of the force, the work done is found to be _____.																
Ans	<input checked="" type="checkbox"/> 1. 12 J <input type="checkbox"/> 2. 10 J <input type="checkbox"/> 3. 3 J <input type="checkbox"/> 4. 4 J																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160684</td></tr> <tr><td>Option 1 ID :</td><td>441009636524</td></tr> <tr><td>Option 2 ID :</td><td>441009636522</td></tr> <tr><td>Option 3 ID :</td><td>441009636523</td></tr> <tr><td>Option 4 ID :</td><td>441009636521</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009160684	Option 1 ID :	441009636524	Option 2 ID :	441009636522	Option 3 ID :	441009636523	Option 4 ID :	441009636521	Status :	Answered	Chosen Option :	1
Question Type :	MCQ																
Question ID :	441009160684																
Option 1 ID :	441009636524																
Option 2 ID :	441009636522																
Option 3 ID :	441009636523																
Option 4 ID :	441009636521																
Status :	Answered																
Chosen Option :	1																
Q.3 5	What is the most effective way to avoid mechanical hazards when operating large and dangerous machines?																
Ans	<input type="checkbox"/> 1. Employee physical fitness training only <input type="checkbox"/> 2. Regular machine maintenance only <input checked="" type="checkbox"/> 3. Proper training and experience <input type="checkbox"/> 4. Machine redesign to eliminate hazards																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156612</td></tr> <tr><td>Option 1 ID :</td><td>441009621612</td></tr> <tr><td>Option 2 ID :</td><td>441009621611</td></tr> <tr><td>Option 3 ID :</td><td>441009621613</td></tr> <tr><td>Option 4 ID :</td><td>441009621614</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156612	Option 1 ID :	441009621612	Option 2 ID :	441009621611	Option 3 ID :	441009621613	Option 4 ID :	441009621614	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																
Question ID :	441009156612																
Option 1 ID :	441009621612																
Option 2 ID :	441009621611																
Option 3 ID :	441009621613																
Option 4 ID :	441009621614																
Status :	Answered																
Chosen Option :	2																
Q.3 6	Which of the following fundamental quantities are used to express any mechanical quantity?																
Ans	<input type="checkbox"/> 1. Mass, time and force <input type="checkbox"/> 2. Length, mass and speed <input checked="" type="checkbox"/> 3. Length, mass and time <input type="checkbox"/> 4. Length, time and energy																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153566</td></tr> <tr><td>Option 1 ID :</td><td>441009609436</td></tr> <tr><td>Option 2 ID :</td><td>441009609435</td></tr> <tr><td>Option 3 ID :</td><td>441009609434</td></tr> <tr><td>Option 4 ID :</td><td>441009609437</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009153566	Option 1 ID :	441009609436	Option 2 ID :	441009609435	Option 3 ID :	441009609434	Option 4 ID :	441009609437	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																
Question ID :	441009153566																
Option 1 ID :	441009609436																
Option 2 ID :	441009609435																
Option 3 ID :	441009609434																
Option 4 ID :	441009609437																
Status :	Answered																
Chosen Option :	3																

Q.3 7	<p>The sum of the ages of a grandfather, his son, and his grandson is 128 years. The grandfather is twice as old as his son, and the son is five times as old as the grandson. Determine the age (in years) of the grandson.</p>																	
Ans	<p><input type="checkbox"/> 1. 7</p> <p><input type="checkbox"/> 2. 6</p> <p><input checked="" type="checkbox"/> 3. 8</p> <p><input type="checkbox"/> 4. 9</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160906</td></tr> <tr><td>Option 1 ID :</td><td>441009637330</td></tr> <tr><td>Option 2 ID :</td><td>441009637329</td></tr> <tr><td>Option 3 ID :</td><td>441009637331</td></tr> <tr><td>Option 4 ID :</td><td>441009637332</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>			Question Type :	MCQ	Question ID :	441009160906	Option 1 ID :	441009637330	Option 2 ID :	441009637329	Option 3 ID :	441009637331	Option 4 ID :	441009637332	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																	
Question ID :	441009160906																	
Option 1 ID :	441009637330																	
Option 2 ID :	441009637329																	
Option 3 ID :	441009637331																	
Option 4 ID :	441009637332																	
Status :	Answered																	
Chosen Option :	3																	
Q.3 8	<p>Select the option that is true regarding the following two statements labelled Assertion (A) and Reason (R).</p> <p><b>Assertion (A):</b> It is safe to work under a suspended load if you are in a hurry.  <b>Reason (R):</b> Never exceed the safe working load (SWL) of the equipment you are using.</p>																	
Ans	<p><input type="checkbox"/> 1. Assertion (A) is true, but Reason (R) is false.</p> <p><input type="checkbox"/> 2. Both (A) and (R) are true, but (R) is not the correct explanation of (A).</p> <p><input type="checkbox"/> 3. Both (A) and (R) are true, and (R) is the correct explanation of (A).</p> <p><input checked="" type="checkbox"/> 4. Assertion (A) is false, but Reason (R) is true.</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009161825</td></tr> <tr><td>Option 1 ID :</td><td>441009640955</td></tr> <tr><td>Option 2 ID :</td><td>441009640954</td></tr> <tr><td>Option 3 ID :</td><td>441009640953</td></tr> <tr><td>Option 4 ID :</td><td>441009640956</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>			Question Type :	MCQ	Question ID :	441009161825	Option 1 ID :	441009640955	Option 2 ID :	441009640954	Option 3 ID :	441009640953	Option 4 ID :	441009640956	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																	
Question ID :	441009161825																	
Option 1 ID :	441009640955																	
Option 2 ID :	441009640954																	
Option 3 ID :	441009640953																	
Option 4 ID :	441009640956																	
Status :	Not Answered																	
Chosen Option :	--																	

<b>Q.3</b>	A cylindrical tank of diameter 14 m contains water up to the depth of 6 m. What is the total area of wetted surface? (Use $\pi = \frac{22}{7}$ )
<b>Ans</b>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"><span style="color: red; font-weight: bold; margin-right: 5px;">✗</span> 1. 412 m<sup>2</sup></div> <div style="display: flex; align-items: center;"><span style="color: red; font-weight: bold; margin-right: 5px;">✗</span> 2. 416 m<sup>2</sup></div> <div style="display: flex; align-items: center;"><span style="color: green; font-weight: bold; margin-right: 5px;">✓</span> 3. 418 m<sup>2</sup></div> <div style="display: flex; align-items: center;"><span style="color: red; font-weight: bold; margin-right: 5px;">✗</span> 4. 414 m<sup>2</sup></div> </div>

  

Question Type : <b>MCQ</b>
Question ID : <b>441009160930</b>
Option 1 ID : <b>441009637425</b>
Option 2 ID : <b>441009637427</b>
Option 3 ID : <b>441009637428</b>
Option 4 ID : <b>441009637426</b>
Status : <b>Answered</b>
Chosen Option : <b>3</b>

  

<b>Q.4</b>	Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)
<b>Ans</b>	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"><span style="color: green; font-weight: bold; margin-right: 5px;">✓</span> 1. RUNP</div> <div style="display: flex; align-items: center;"><span style="color: red; font-weight: bold; margin-right: 5px;">✗</span> 2. NQIL</div> <div style="display: flex; align-items: center;"><span style="color: red; font-weight: bold; margin-right: 5px;">✗</span> 3. BEWZ</div> <div style="display: flex; align-items: center;"><span style="color: red; font-weight: bold; margin-right: 5px;">✗</span> 4. WZRU</div> </div>

  

Question Type : <b>MCQ</b>
Question ID : <b>441009155643</b>
Option 1 ID : <b>441009617739</b>
Option 2 ID : <b>441009617740</b>
Option 3 ID : <b>441009617741</b>
Option 4 ID : <b>441009617742</b>
Status : <b>Answered</b>
Chosen Option : <b>1</b>

Q.4	SI unit of luminous intensity is ____.																
1																	
Ans	<input checked="" type="checkbox"/> 1. candela <input type="checkbox"/> 2. watt <input type="checkbox"/> 3. mole <input type="checkbox"/> 4. metre																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160709</td></tr> <tr><td>Option 1 ID :</td><td>441009636621</td></tr> <tr><td>Option 2 ID :</td><td>441009636623</td></tr> <tr><td>Option 3 ID :</td><td>441009636622</td></tr> <tr><td>Option 4 ID :</td><td>441009636624</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009160709	Option 1 ID :	441009636621	Option 2 ID :	441009636623	Option 3 ID :	441009636622	Option 4 ID :	441009636624	Status :	Answered	Chosen Option :	1
Question Type :	MCQ																
Question ID :	441009160709																
Option 1 ID :	441009636621																
Option 2 ID :	441009636623																
Option 3 ID :	441009636622																
Option 4 ID :	441009636624																
Status :	Answered																
Chosen Option :	1																

  

Q.4	Which of the following features is NOT available in Google Docs?																
2																	
Ans	<input type="checkbox"/> 1. Create tables <input type="checkbox"/> 2. Comment on text <input checked="" type="checkbox"/> 3. Track changes <input type="checkbox"/> 4. Insert images																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160895</td></tr> <tr><td>Option 1 ID :</td><td>441009637288</td></tr> <tr><td>Option 2 ID :</td><td>441009637286</td></tr> <tr><td>Option 3 ID :</td><td>441009637285</td></tr> <tr><td>Option 4 ID :</td><td>441009637287</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009160895	Option 1 ID :	441009637288	Option 2 ID :	441009637286	Option 3 ID :	441009637285	Option 4 ID :	441009637287	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																
Question ID :	441009160895																
Option 1 ID :	441009637288																
Option 2 ID :	441009637286																
Option 3 ID :	441009637285																
Option 4 ID :	441009637287																
Status :	Answered																
Chosen Option :	3																

  

Q.4	Which of the following is commonly used to treat drinking water?																
3																	
Ans	<input checked="" type="checkbox"/> 1. Chlorination <input type="checkbox"/> 2. Acid neutralisation <input type="checkbox"/> 3. Oil filtration <input type="checkbox"/> 4. Incineration																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009158542</td></tr> <tr><td>Option 1 ID :</td><td>441009629103</td></tr> <tr><td>Option 2 ID :</td><td>441009629106</td></tr> <tr><td>Option 3 ID :</td><td>441009629105</td></tr> <tr><td>Option 4 ID :</td><td>441009629104</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009158542	Option 1 ID :	441009629103	Option 2 ID :	441009629106	Option 3 ID :	441009629105	Option 4 ID :	441009629104	Status :	Answered	Chosen Option :	1
Question Type :	MCQ																
Question ID :	441009158542																
Option 1 ID :	441009629103																
Option 2 ID :	441009629106																
Option 3 ID :	441009629105																
Option 4 ID :	441009629104																
Status :	Answered																
Chosen Option :	1																

**Q.4** Each of I, J, K, L, U, V and W has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week. Only two people have the exam before V. Only one person has the exam after L. Only three people have the exam between V and I. Only one person has the exam between J and K. W has the exam immediately before J. Who among the following has the exam on Friday?

**Ans**  1. W  
 2. V  
 3. I  
 4. U

Question Type :	MCQ
Question ID :	441009155663
Option 1 ID :	441009617821
Option 2 ID :	441009617820
Option 3 ID :	441009617819
Option 4 ID :	441009617822
Status :	Answered
Chosen Option :	4

**Q.4** Refer to the following letter and symbol series and answer the question that follows.  
**5** Counting to be done from left to right only.  
 (Left) ^ T J # L R Ω Y # % S U \$ E K Q & \* £ B (Right)  
 How many such symbols are there, each of which is immediately preceded by a symbol and also immediately followed by a letter?

**Ans**  1. Four  
 2. Three  
 3. One  
 4. Two

Question Type :	MCQ
Question ID :	441009155618
Option 1 ID :	441009617642
Option 2 ID :	441009617641
Option 3 ID :	441009617639
Option 4 ID :	441009617640
Status :	Answered
Chosen Option :	4

<p><b>Q.4</b> 6</p>	<p>The dimension of surface tension is _____.</p>																
<p><b>Ans</b></p>	<p>✓ 1. <math>ML^0T^{-2}</math></p> <p>✗ 2. <math>ML^2T^{-2}</math></p> <p>✗ 3. <math>MLT^{-2}</math></p> <p>✗ 4. <math>ML^0T</math></p>																
<table border="1" style="border-collapse: collapse; width: 100%;"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153570</td></tr> <tr><td>Option 1 ID :</td><td>441009609450</td></tr> <tr><td>Option 2 ID :</td><td>441009609452</td></tr> <tr><td>Option 3 ID :</td><td>441009609451</td></tr> <tr><td>Option 4 ID :</td><td>441009609453</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </tbody> </table>		Question Type :	MCQ	Question ID :	441009153570	Option 1 ID :	441009609450	Option 2 ID :	441009609452	Option 3 ID :	441009609451	Option 4 ID :	441009609453	Status :	Answered	Chosen Option :	1
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Question ID :	441009153570																
Option 1 ID :	441009609450																
Option 2 ID :	441009609452																
Option 3 ID :	441009609451																
Option 4 ID :	441009609453																
Status :	Answered																
Chosen Option :	1																
<p><b>Q.4</b> 7</p>	<p>A bulb is connected across a battery of 10 V for 20 seconds. If a current of 2 A flows through it, calculate the heat energy generated by the bulb.</p>																
<p><b>Ans</b></p>	<p>✗ 1. 200 J</p> <p>✗ 2. 120 J</p> <p>✓ 3. 400 J</p> <p>✗ 4. 100 J</p>																
<table border="1" style="border-collapse: collapse; width: 100%;"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160701</td></tr> <tr><td>Option 1 ID :</td><td>441009636590</td></tr> <tr><td>Option 2 ID :</td><td>441009636592</td></tr> <tr><td>Option 3 ID :</td><td>441009636589</td></tr> <tr><td>Option 4 ID :</td><td>441009636591</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </tbody> </table>		Question Type :	MCQ	Question ID :	441009160701	Option 1 ID :	441009636590	Option 2 ID :	441009636592	Option 3 ID :	441009636589	Option 4 ID :	441009636591	Status :	Answered	Chosen Option :	3
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Option 1 ID :	441009636590																
Option 2 ID :	441009636592																
Option 3 ID :	441009636589																
Option 4 ID :	441009636591																
Status :	Answered																
Chosen Option :	3																
<p><b>Q.4</b> 8</p>	<p>A train goes from A to B at a speed of 40 km/hr and returns from B to A by the same route at 10 km/hr. The average speed (in km/hr) of the train during the two-way journey is:</p>																
<p><b>Ans</b></p>	<p>✗ 1. 19</p> <p>✗ 2. 14</p> <p>✓ 3. 16</p> <p>✗ 4. 15</p>																
<table border="1" style="border-collapse: collapse; width: 100%;"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160910</td></tr> <tr><td>Option 1 ID :</td><td>441009637346</td></tr> <tr><td>Option 2 ID :</td><td>441009637347</td></tr> <tr><td>Option 3 ID :</td><td>441009637345</td></tr> <tr><td>Option 4 ID :</td><td>441009637348</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </tbody> </table>		Question Type :	MCQ	Question ID :	441009160910	Option 1 ID :	441009637346	Option 2 ID :	441009637347	Option 3 ID :	441009637345	Option 4 ID :	441009637348	Status :	Answered	Chosen Option :	3
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Option 1 ID :	441009637346																
Option 2 ID :	441009637347																
Option 3 ID :	441009637345																
Option 4 ID :	441009637348																
Status :	Answered																
Chosen Option :	3																

<p><b>Q.4</b> 9</p>	<p>In a certain code language, 'A × B' means 'A is the son of B', 'A – B' means 'A is the brother of B', 'A + B' means 'A is the wife of B' and 'A % B' means 'A is the father of B'.</p> <p>How is M related to T if 'M × N – P % S + T'?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. Wife's mother's brother</p> <p><input type="checkbox"/> 2. Wife's father's brother</p> <p><input type="checkbox"/> 3. Wife's mother's brother's son</p> <p><input checked="" type="checkbox"/> 4. Wife's father's brother's son</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td>441009155669</td></tr> <tr><td>Option 1 ID :</td><td>441009617846</td></tr> <tr><td>Option 2 ID :</td><td>441009617845</td></tr> <tr><td>Option 3 ID :</td><td>441009617844</td></tr> <tr><td>Option 4 ID :</td><td>441009617843</td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	441009155669	Option 1 ID :	441009617846	Option 2 ID :	441009617845	Option 3 ID :	441009617844	Option 4 ID :	441009617843	Status :	<b>Answered</b>	Chosen Option :	4
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Question ID :	441009155669																	
Option 1 ID :	441009617846																	
Option 2 ID :	441009617845																	
Option 3 ID :	441009617844																	
Option 4 ID :	441009617843																	
Status :	<b>Answered</b>																	
Chosen Option :	4																	
<p><b>Q.5</b> 0</p>	<p>How many folds is/are required to fold an A2 size drawing sheet (420 mm × 594 mm), according to BIS SP: 46-2003?</p>																	
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. 3 folds</p> <p><input type="checkbox"/> 2. 1 fold</p> <p><input type="checkbox"/> 3. 2 folds</p> <p><input type="checkbox"/> 4. 4 folds</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td>441009156580</td></tr> <tr><td>Option 1 ID :</td><td>441009621484</td></tr> <tr><td>Option 2 ID :</td><td>441009621485</td></tr> <tr><td>Option 3 ID :</td><td>441009621483</td></tr> <tr><td>Option 4 ID :</td><td>441009621486</td></tr> <tr><td>Status :</td><td><b>Not Answered</b></td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	441009156580	Option 1 ID :	441009621484	Option 2 ID :	441009621485	Option 3 ID :	441009621483	Option 4 ID :	441009621486	Status :	<b>Not Answered</b>	Chosen Option :	--
Question Type :	<b>MCQ</b>																	
Question ID :	441009156580																	
Option 1 ID :	441009621484																	
Option 2 ID :	441009621485																	
Option 3 ID :	441009621483																	
Option 4 ID :	441009621486																	
Status :	<b>Not Answered</b>																	
Chosen Option :	--																	
<p><b>Q.5</b> 1</p>	<p>In a certain code language, 'while you wait' is coded as 'ns bg sp' and 'why wait now' is coded as 'kc rw bg'. How is 'wait' coded in the given language?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. ns</p> <p><input type="checkbox"/> 2. kc</p> <p><input checked="" type="checkbox"/> 3. bg</p> <p><input type="checkbox"/> 4. sp</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td>441009155637</td></tr> <tr><td>Option 1 ID :</td><td>441009617715</td></tr> <tr><td>Option 2 ID :</td><td>441009617717</td></tr> <tr><td>Option 3 ID :</td><td>441009617716</td></tr> <tr><td>Option 4 ID :</td><td>441009617718</td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	441009155637	Option 1 ID :	441009617715	Option 2 ID :	441009617717	Option 3 ID :	441009617716	Option 4 ID :	441009617718	Status :	<b>Answered</b>	Chosen Option :	3
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Question ID :	441009155637																	
Option 1 ID :	441009617715																	
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Option 3 ID :	441009617716																	
Option 4 ID :	441009617718																	
Status :	<b>Answered</b>																	
Chosen Option :	3																	

**Q.5** Refer to the following letter and symbol series and answer the question that follows.  
 2 Counting to be done from left to right only.  
 (Left) ^ T J # L R Ω Y # E % S U \$ K Q & \* £ B (Right)  
 How many such symbols are there each of which is immediately preceded by a letter and also immediately followed by another symbol?

**Ans**  1. Four  
 2. One  
 3. Two  
 4. Three

Question Type :	MCQ
Question ID :	441009160821
Option 1 ID :	441009637011
Option 2 ID :	441009637008
Option 3 ID :	441009637009
Option 4 ID :	441009637010
Status :	Answered
Chosen Option :	2

**Q.5** Which of the following options represents the equation for work done?  
 3

**Ans**  1. Work done = force × displacement  
 2. Work done = force - displacement  
 3. Work done = force + displacement  
 4. Work done = force / displacement

Question Type :	MCQ
Question ID :	441009153544
Option 1 ID :	441009609346
Option 2 ID :	441009609349
Option 3 ID :	441009609348
Option 4 ID :	441009609347
Status :	Answered
Chosen Option :	1

Q.5 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

**Statements:**  
Some cats are rats.  
All bats are tables.  
All rats are bats.

**Conclusions:**  
(I): Some cats are bats.  
(II): All bats are rats.

- Ans
1. Neither conclusion (I) nor (II) follows.
2. Only conclusion (I) follows.
3. Both conclusions (I) and (II) follow.
4. Only conclusion (II) follows.

Question Type : MCQ

Question ID : 441009155655

Option 1 ID : 441009617789

Option 2 ID : 441009617787

Option 3 ID : 441009617790

Option 4 ID : 441009617788

Status : Answered

Chosen Option : 2

Q.5 मामूली रूप से जलने (minor burn) पर प्राथमिक चिकित्सा प्रदान करने में पहला चरण क्या है?

- Ans
1. जो भी फफोले बनें उन्हें फोड़ दें
2. जले हुए स्थान पर ठंडा पानी डालें
3. जले हुए स्थान पर मक्खन लगाएं
4. जले हुए स्थान को मोटे कपड़े से ढकें

Question Type : MCQ

Question ID : 441009161817

Option 1 ID : 441009640924

Option 2 ID : 441009640923

Option 3 ID : 441009640921

Option 4 ID : 441009640922

Status : Answered

Chosen Option : 2

<p><b>Q.5</b> 6</p>	<p>The value of <math>32 - 4 [ 4 + 5 ( 4 - 4 ( 6 - 2 ) + 4 ) - 18 ] + 6</math> is:</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 60</p> <p><input type="checkbox"/> 2. 58</p> <p><input checked="" type="checkbox"/> 3. 68</p> <p><input type="checkbox"/> 4. 56</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153654</td></tr> <tr><td>Option 1 ID :</td><td>441009609789</td></tr> <tr><td>Option 2 ID :</td><td>441009609788</td></tr> <tr><td>Option 3 ID :</td><td>441009609786</td></tr> <tr><td>Option 4 ID :</td><td>441009609787</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>			Question Type :	MCQ	Question ID :	441009153654	Option 1 ID :	441009609789	Option 2 ID :	441009609788	Option 3 ID :	441009609786	Option 4 ID :	441009609787	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																	
Question ID :	441009153654																	
Option 1 ID :	441009609789																	
Option 2 ID :	441009609788																	
Option 3 ID :	441009609786																	
Option 4 ID :	441009609787																	
Status :	Answered																	
Chosen Option :	2																	
<p><b>Q.5</b> 7</p>	<p>A product, whose MRP is ₹1,590, is sold for ₹835 by a wholesale shop owner. What is the percentage of discount given by him (nearest to its integer)?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 46%</p> <p><input type="checkbox"/> 2. 49%</p> <p><input checked="" type="checkbox"/> 3. 47%</p> <p><input type="checkbox"/> 4. 45%</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153604</td></tr> <tr><td>Option 1 ID :</td><td>441009609589</td></tr> <tr><td>Option 2 ID :</td><td>441009609588</td></tr> <tr><td>Option 3 ID :</td><td>441009609586</td></tr> <tr><td>Option 4 ID :</td><td>441009609587</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>			Question Type :	MCQ	Question ID :	441009153604	Option 1 ID :	441009609589	Option 2 ID :	441009609588	Option 3 ID :	441009609586	Option 4 ID :	441009609587	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																	
Question ID :	441009153604																	
Option 1 ID :	441009609589																	
Option 2 ID :	441009609588																	
Option 3 ID :	441009609586																	
Option 4 ID :	441009609587																	
Status :	Answered																	
Chosen Option :	3																	
<p><b>Q.5</b> 8</p>	<p>The resistivity of a conductor depends on the _____.</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. potential difference across conductor</p> <p><input type="checkbox"/> 2. length of conductor</p> <p><input type="checkbox"/> 3. cross-sectional area</p> <p><input checked="" type="checkbox"/> 4. material</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160683</td></tr> <tr><td>Option 1 ID :</td><td>441009636520</td></tr> <tr><td>Option 2 ID :</td><td>441009636519</td></tr> <tr><td>Option 3 ID :</td><td>441009636518</td></tr> <tr><td>Option 4 ID :</td><td>441009636517</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>			Question Type :	MCQ	Question ID :	441009160683	Option 1 ID :	441009636520	Option 2 ID :	441009636519	Option 3 ID :	441009636518	Option 4 ID :	441009636517	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																	
Question ID :	441009160683																	
Option 1 ID :	441009636520																	
Option 2 ID :	441009636519																	
Option 3 ID :	441009636518																	
Option 4 ID :	441009636517																	
Status :	Answered																	
Chosen Option :	4																	

<p><b>Q.5</b> 9</p>	<p>A man purchased two varieties of apples at the rate of ₹4 for 5 apples and ₹4 per apple, respectively. If he purchased an equal number of apples of each variety and then sold all the apples at ₹3 per apple, what will be his profit percentage?</p>																	
<p>Ans</p>	<p><input type="checkbox"/> 1. 0.23%</p> <p><input checked="" type="checkbox"/> 2. 0.25%</p> <p><input type="checkbox"/> 3. 0.2%</p> <p><input type="checkbox"/> 4. 0.24%</p>																	
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Question Type :	MCQ																	
Question ID :	441009153615																	
Option 1 ID :	441009609633																	
Option 2 ID :	441009609630																	
Option 3 ID :	441009609632																	
Option 4 ID :	441009609631																	
Status :	Answered																	
Chosen Option :	2																	
<p><b>Q.6</b> 0</p>	<p>Determine the energy of an object with a mass of 5 kg at a height of 8 metres above the ground. Assume the value of 'g' as <math>9.8 \text{ m s}^{-2}</math>.</p>																	
<p>Ans</p>	<p><input type="checkbox"/> 1. 400 J</p> <p><input checked="" type="checkbox"/> 2. 392 J</p> <p><input type="checkbox"/> 3. 300 J</p> <p><input type="checkbox"/> 4. 784 J</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160696</td></tr> <tr><td>Option 1 ID :</td><td>441009636570</td></tr> <tr><td>Option 2 ID :</td><td>441009636569</td></tr> <tr><td>Option 3 ID :</td><td>441009636572</td></tr> <tr><td>Option 4 ID :</td><td>441009636571</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </tbody> </table>			Question Type :	MCQ	Question ID :	441009160696	Option 1 ID :	441009636570	Option 2 ID :	441009636569	Option 3 ID :	441009636572	Option 4 ID :	441009636571	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																	
Question ID :	441009160696																	
Option 1 ID :	441009636570																	
Option 2 ID :	441009636569																	
Option 3 ID :	441009636572																	
Option 4 ID :	441009636571																	
Status :	Answered																	
Chosen Option :	2																	
<p><b>Q.6</b> 1</p>	<p>If <math>46.4 : x :: x : 2.9</math>, and <math>x &gt; 0</math>, then find the value of <math>x</math>.</p>																	
<p>Ans</p>	<p><input type="checkbox"/> 1. 15.6</p> <p><input type="checkbox"/> 2. 14.3</p> <p><input type="checkbox"/> 3. 13.4</p> <p><input checked="" type="checkbox"/> 4. 11.6</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160913</td></tr> <tr><td>Option 1 ID :</td><td>441009637359</td></tr> <tr><td>Option 2 ID :</td><td>441009637358</td></tr> <tr><td>Option 3 ID :</td><td>441009637360</td></tr> <tr><td>Option 4 ID :</td><td>441009637357</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </tbody> </table>			Question Type :	MCQ	Question ID :	441009160913	Option 1 ID :	441009637359	Option 2 ID :	441009637358	Option 3 ID :	441009637360	Option 4 ID :	441009637357	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																	
Question ID :	441009160913																	
Option 1 ID :	441009637359																	
Option 2 ID :	441009637358																	
Option 3 ID :	441009637360																	
Option 4 ID :	441009637357																	
Status :	Answered																	
Chosen Option :	4																	

<b>Q.6</b>	What is an appropriate way to handle a misunderstanding in an online conversation?
<b>2</b>	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Publicly shaming the other person <input checked="" type="checkbox"/> 2. Addressing the misunderstanding politely and privately <input checked="" type="checkbox"/> 3. Blocking the person immediately <input checked="" type="checkbox"/> 4. Ignoring the conversation

Question Type :	MCQ
Question ID :	441009160892
Option 1 ID :	441009637273
Option 2 ID :	441009637275
Option 3 ID :	441009637276
Option 4 ID :	441009637274
Status :	Answered
Chosen Option :	2

<b>Q.6</b>	Find the least number which when divided by 5, 6 and 7 leaves remainders 4, 5 and 6.
<b>3</b>	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 208 <input checked="" type="checkbox"/> 2. 210 <input checked="" type="checkbox"/> 3. 209 <input checked="" type="checkbox"/> 4. 207

Question Type :	MCQ
Question ID :	441009153642
Option 1 ID :	441009609739
Option 2 ID :	441009609741
Option 3 ID :	441009609740
Option 4 ID :	441009609738
Status :	Answered
Chosen Option :	3

<b>Q.6</b>	What is the typical range of wind speed (in m/s) required for the efficient operation of most commercial wind turbines?
<b>4</b>	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 3 - 5 m/s <input checked="" type="checkbox"/> 2. 12 - 25 m/s <input checked="" type="checkbox"/> 3. 5 - 15 m/s <input checked="" type="checkbox"/> 4. 0 - 2 m/s

Question Type :	MCQ
Question ID :	441009158531
Option 1 ID :	441009629060
Option 2 ID :	441009629061
Option 3 ID :	441009629062
Option 4 ID :	441009629059
Status :	Not Answered
Chosen Option :	--

**Q.6** In a project involving the design of a pipeline for a building, which technical drawings would need to be referenced together?

**5**

**Ans**  1. Mechanical and Civil  
 2. Mechanical and Electrical  
 3. Civil and Electronics  
 4. Electrical and Electronics

Question Type :	MCQ
Question ID :	441009156581
Option 1 ID :	441009621487
Option 2 ID :	441009621489
Option 3 ID :	441009621490
Option 4 ID :	441009621488
Status :	Answered
Chosen Option :	1

**Q.6** In this question, two statements I and II have been given. These statements may be independent causes or effects of independent causes or a common cause. One of the statements may be the effect of the other statement. Read both the statements carefully and select the correct answer.

**6**

I. The local river's water levels have reached an all-time low this summer, disrupting water supply to the nearby towns.  
 II. Several power plants in the region have reported reduced electricity production due to insufficient water for cooling processes.

**Ans**  1. II is the cause and I is its possible effect.  
 2. Both I and II are independent causes.  
 3. Both I and II are effects of independent causes.  
 4. I is the cause and II is its possible effect.

Question Type :	MCQ
Question ID :	441009155683
Option 1 ID :	441009617900
Option 2 ID :	441009617901
Option 3 ID :	441009617902
Option 4 ID :	441009617899
Status :	Not Answered
Chosen Option :	--

Q.6	In a certain code language, 'GIFT' is coded as '8264' and 'FEAR' is coded as '3527'.																
7	What is the code for 'F' in the given code language?																
Ans	<input checked="" type="checkbox"/> 1. 6 <input checked="" type="checkbox"/> 2. 3 <input checked="" type="checkbox"/> 3. 2 <input checked="" type="checkbox"/> 4. 5																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160823</td></tr> <tr><td>Option 1 ID :</td><td>441009637019</td></tr> <tr><td>Option 2 ID :</td><td>441009637017</td></tr> <tr><td>Option 3 ID :</td><td>441009637016</td></tr> <tr><td>Option 4 ID :</td><td>441009637018</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009160823	Option 1 ID :	441009637019	Option 2 ID :	441009637017	Option 3 ID :	441009637016	Option 4 ID :	441009637018	Status :	Answered	Chosen Option :	3
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Option 1 ID :	441009637019																
Option 2 ID :	441009637017																
Option 3 ID :	441009637016																
Option 4 ID :	441009637018																
Status :	Answered																
Chosen Option :	3																
Q.6	The body of the cooking vessel is of metal and handles are of plastic because _____.																
8																	
Ans	<input checked="" type="checkbox"/> 1. both metal and plastic are good conductors of heat <input checked="" type="checkbox"/> 2. both metal and plastic are insulators <input checked="" type="checkbox"/> 3. metal is a good conductor of heat and plastic is an insulator <input checked="" type="checkbox"/> 4. metal is an insulator and plastic is a good conductor of heat																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154520</td></tr> <tr><td>Option 1 ID :</td><td>441009613242</td></tr> <tr><td>Option 2 ID :</td><td>441009613243</td></tr> <tr><td>Option 3 ID :</td><td>441009613244</td></tr> <tr><td>Option 4 ID :</td><td>441009613245</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009154520	Option 1 ID :	441009613242	Option 2 ID :	441009613243	Option 3 ID :	441009613244	Option 4 ID :	441009613245	Status :	Answered	Chosen Option :	3
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Question ID :	441009154520																
Option 1 ID :	441009613242																
Option 2 ID :	441009613243																
Option 3 ID :	441009613244																
Option 4 ID :	441009613245																
Status :	Answered																
Chosen Option :	3																
Q.6	Generally, what is the process of heat transfer in liquids?																
9																	
Ans	<input checked="" type="checkbox"/> 1. Radiation only <input checked="" type="checkbox"/> 2. Conduction only <input checked="" type="checkbox"/> 3. Both conduction and radiation <input checked="" type="checkbox"/> 4. Convection																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154531</td></tr> <tr><td>Option 1 ID :</td><td>441009613288</td></tr> <tr><td>Option 2 ID :</td><td>441009613286</td></tr> <tr><td>Option 3 ID :</td><td>441009613289</td></tr> <tr><td>Option 4 ID :</td><td>441009613287</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009154531	Option 1 ID :	441009613288	Option 2 ID :	441009613286	Option 3 ID :	441009613289	Option 4 ID :	441009613287	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																
Question ID :	441009154531																
Option 1 ID :	441009613288																
Option 2 ID :	441009613286																
Option 3 ID :	441009613289																
Option 4 ID :	441009613287																
Status :	Answered																
Chosen Option :	4																

Q.7 0	<p>In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Which numbers should replace X and Y so that the pattern followed by the two numbers on the left side of :: is same as that on the right side of ::?</p> <p>(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)</p> <p>X : 179 :: 22 : Y</p>																	
Ans	<p>✓ 1. X = 18, Y = 219</p> <p>✗ 2. X = 16, Y = 222</p> <p>✗ 3. X = 16, Y = 219</p> <p>✗ 4. X = 15, Y = 223</p>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155599</td></tr> <tr><td>Option 1 ID :</td><td>441009617565</td></tr> <tr><td>Option 2 ID :</td><td>441009617563</td></tr> <tr><td>Option 3 ID :</td><td>441009617564</td></tr> <tr><td>Option 4 ID :</td><td>441009617566</td></tr> <tr><td>Status :</td><td>Not Attempted and Marked For Review</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>			Question Type :	MCQ	Question ID :	441009155599	Option 1 ID :	441009617565	Option 2 ID :	441009617563	Option 3 ID :	441009617564	Option 4 ID :	441009617566	Status :	Not Attempted and Marked For Review	Chosen Option :	--
Question Type :	MCQ																	
Question ID :	441009155599																	
Option 1 ID :	441009617565																	
Option 2 ID :	441009617563																	
Option 3 ID :	441009617564																	
Option 4 ID :	441009617566																	
Status :	Not Attempted and Marked For Review																	
Chosen Option :	--																	
Q.7 1	<p>A person saves 10% of his monthly income. If his monthly income increases by 30%, then he saves 20% more than the previous savings. The percentage increase in his expenditure, correct to two places after decimal, is _____.</p>																	
Ans	<p>✗ 1. 40.44%</p> <p>✗ 2. 37.33%</p> <p>✗ 3. 24.89%</p> <p>✓ 4. 31.11%</p>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160916</td></tr> <tr><td>Option 1 ID :</td><td>441009637372</td></tr> <tr><td>Option 2 ID :</td><td>441009637370</td></tr> <tr><td>Option 3 ID :</td><td>441009637371</td></tr> <tr><td>Option 4 ID :</td><td>441009637369</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>			Question Type :	MCQ	Question ID :	441009160916	Option 1 ID :	441009637372	Option 2 ID :	441009637370	Option 3 ID :	441009637371	Option 4 ID :	441009637369	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																	
Question ID :	441009160916																	
Option 1 ID :	441009637372																	
Option 2 ID :	441009637370																	
Option 3 ID :	441009637371																	
Option 4 ID :	441009637369																	
Status :	Answered																	
Chosen Option :	4																	

<p><b>Q.7</b></p>	<p>What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '/' are interchanged?</p> <p><math>9 \div 5 + 70 \times 7 - 11 = ?</math></p>
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 47</p> <p><input type="checkbox"/> 2. 44</p> <p><input type="checkbox"/> 3. 45</p> <p><input checked="" type="checkbox"/> 4. 46</p>

  

Question Type : <b>MCQ</b>
Question ID : <b>441009155591</b>
Option 1 ID : <b>441009617534</b>
Option 2 ID : <b>441009617531</b>
Option 3 ID : <b>441009617532</b>
Option 4 ID : <b>441009617533</b>
Status : <b>Answered</b>
Chosen Option : <b>4</b>

  

<p><b>Q.7</b></p>	<p>In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.</p> <p>INK KPJ MRI OTH QWG SXF</p>
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. QWG</p> <p><input type="checkbox"/> 2. OTH</p> <p><input type="checkbox"/> 3. SXF</p> <p><input type="checkbox"/> 4. MRI</p>

  

Question Type : <b>MCQ</b>
Question ID : <b>441009155648</b>
Option 1 ID : <b>441009617761</b>
Option 2 ID : <b>441009617760</b>
Option 3 ID : <b>441009617762</b>
Option 4 ID : <b>441009617759</b>
Status : <b>Answered</b>
Chosen Option : <b>1</b>

Q.7 4	In the following triad, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.  GRAND–GRNAD–DNARG																
Ans	<input checked="" type="checkbox"/> 1. NIGHT–NGHIT–THGIN <input checked="" type="checkbox"/> 2. INDEX–DEXIN–XDEIN <input checked="" type="checkbox"/> 3. MINOR–MOINR–RNOIM <input checked="" type="checkbox"/> 4. FRUIT–FRIUT–TIURF																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160832</td></tr> <tr><td>Option 1 ID :</td><td>441009637055</td></tr> <tr><td>Option 2 ID :</td><td>441009637053</td></tr> <tr><td>Option 3 ID :</td><td>441009637054</td></tr> <tr><td>Option 4 ID :</td><td>441009637052</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009160832	Option 1 ID :	441009637055	Option 2 ID :	441009637053	Option 3 ID :	441009637054	Option 4 ID :	441009637052	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																
Question ID :	441009160832																
Option 1 ID :	441009637055																
Option 2 ID :	441009637053																
Option 3 ID :	441009637054																
Option 4 ID :	441009637052																
Status :	Answered																
Chosen Option :	4																
Q.7 5	An 8 Ω resistor generates 200 J of heat every second. What is the potential difference across the resistor?																
Ans	<input checked="" type="checkbox"/> 1. 20 V <input checked="" type="checkbox"/> 2. 40 V <input checked="" type="checkbox"/> 3. 30 V <input checked="" type="checkbox"/> 4. 10 V																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153518</td></tr> <tr><td>Option 1 ID :</td><td>441009609244</td></tr> <tr><td>Option 2 ID :</td><td>441009609242</td></tr> <tr><td>Option 3 ID :</td><td>441009609243</td></tr> <tr><td>Option 4 ID :</td><td>441009609245</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009153518	Option 1 ID :	441009609244	Option 2 ID :	441009609242	Option 3 ID :	441009609243	Option 4 ID :	441009609245	Status :	Answered	Chosen Option :	2
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Question ID :	441009153518																
Option 1 ID :	441009609244																
Option 2 ID :	441009609242																
Option 3 ID :	441009609243																
Option 4 ID :	441009609245																
Status :	Answered																
Chosen Option :	2																
Q.7 6	Which of the following letter-number clusters will replace the question mark (?) in the given series?  6S, 24T, 12V, 48Y, 24C, ?																
Ans	<input checked="" type="checkbox"/> 1. 96I <input checked="" type="checkbox"/> 2. 60H <input checked="" type="checkbox"/> 3. 96H <input checked="" type="checkbox"/> 4. 96G																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160835</td></tr> <tr><td>Option 1 ID :</td><td>441009637065</td></tr> <tr><td>Option 2 ID :</td><td>441009637067</td></tr> <tr><td>Option 3 ID :</td><td>441009637066</td></tr> <tr><td>Option 4 ID :</td><td>441009637064</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009160835	Option 1 ID :	441009637065	Option 2 ID :	441009637067	Option 3 ID :	441009637066	Option 4 ID :	441009637064	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																
Question ID :	441009160835																
Option 1 ID :	441009637065																
Option 2 ID :	441009637067																
Option 3 ID :	441009637066																
Option 4 ID :	441009637064																
Status :	Answered																
Chosen Option :	3																

<p><b>Q.7</b> 7</p>	<p>A class of 30 students appeared in a test. The average score of 12 students is 68, and that of the rest is 70. What is the average score of the class?</p>																	
<p>Ans</p>	<p><input type="checkbox"/> 1. 67.2</p> <p><input type="checkbox"/> 2. 68.2</p> <p><input checked="" type="checkbox"/> 3. 69.2</p> <p><input type="checkbox"/> 4. 70.2</p>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153631</td></tr> <tr><td>Option 1 ID :</td><td>441009609697</td></tr> <tr><td>Option 2 ID :</td><td>441009609695</td></tr> <tr><td>Option 3 ID :</td><td>441009609694</td></tr> <tr><td>Option 4 ID :</td><td>441009609696</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>			Question Type :	MCQ	Question ID :	441009153631	Option 1 ID :	441009609697	Option 2 ID :	441009609695	Option 3 ID :	441009609694	Option 4 ID :	441009609696	Status :	Answered	Chosen Option :	3
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Option 1 ID :	441009609697																	
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Option 3 ID :	441009609694																	
Option 4 ID :	441009609696																	
Status :	Answered																	
Chosen Option :	3																	
<p><b>Q.7</b> 8</p>	<p>The measures of two supplementary angles are in the ratio 3 : 7. Find the measure of the greater of the two angles.</p>																	
<p>Ans</p>	<p><input type="checkbox"/> 1. 144°</p> <p><input type="checkbox"/> 2. 180°</p> <p><input checked="" type="checkbox"/> 3. 126°</p> <p><input type="checkbox"/> 4. 54°</p>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160928</td></tr> <tr><td>Option 1 ID :</td><td>441009637419</td></tr> <tr><td>Option 2 ID :</td><td>441009637420</td></tr> <tr><td>Option 3 ID :</td><td>441009637418</td></tr> <tr><td>Option 4 ID :</td><td>441009637417</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>			Question Type :	MCQ	Question ID :	441009160928	Option 1 ID :	441009637419	Option 2 ID :	441009637420	Option 3 ID :	441009637418	Option 4 ID :	441009637417	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																	
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Option 1 ID :	441009637419																	
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Option 3 ID :	441009637418																	
Option 4 ID :	441009637417																	
Status :	Answered																	
Chosen Option :	3																	
<p><b>Q.7</b> 9</p>	<p>A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on till the topmost floor, which is numbered 6. F lives on an even-numbered floor but not on floor 6. The sum of the floors on which D and F live is 9. The sum of the floors on which F and B live is 5. E lives immediately below C. How many people live between D and E?</p>																	
<p>Ans</p>	<p><input type="checkbox"/> 1. 1</p> <p><input checked="" type="checkbox"/> 2. 2</p> <p><input type="checkbox"/> 3. 4</p> <p><input type="checkbox"/> 4. 3</p>																	
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Question Type :	MCQ																	
Question ID :	441009155661																	
Option 1 ID :	441009617811																	
Option 2 ID :	441009617812																	
Option 3 ID :	441009617814																	
Option 4 ID :	441009617813																	
Status :	Answered																	
Chosen Option :	2																	

Q.8	वनस्पति तैलों से बायोडीजल बनाने के लिए किस रासायनिक प्रक्रम में ऐल्कोहॉल के R समूह को एस्टर के R' समूह से प्रतिस्थापित किया जाता है?
Ans	<input checked="" type="checkbox"/> 1. आसवन (Distillation) <input checked="" type="checkbox"/> 2. बहुलकन (Polymerisation) <input checked="" type="checkbox"/> 3. पार-ऐस्टरीकरण (Transesterification) <input checked="" type="checkbox"/> 4. किण्वन (Fermentation)

Question Type :	MCQ
Question ID :	441009158534
Option 1 ID :	441009629073
Option 2 ID :	441009629074
Option 3 ID :	441009629072
Option 4 ID :	441009629071
Status :	Answered
Chosen Option :	4

  

Q.8	In $\Delta PQR$ , $\angle Q = 90^\circ$ . If $\tan R = \frac{1}{2}$ , then what is the value of $\frac{\sec R}{4 \cos R}$
Ans	<input checked="" type="checkbox"/> 1. $-\frac{8}{7}$ <input checked="" type="checkbox"/> 2. $\frac{8}{7}$ <input checked="" type="checkbox"/> 3. $-\frac{1}{3}$ <input checked="" type="checkbox"/> 4. $\frac{1}{3}$

Question Type :	MCQ
Question ID :	441009153670
Option 1 ID :	441009609851
Option 2 ID :	441009609850
Option 3 ID :	441009609853
Option 4 ID :	441009609852
Status :	Answered
Chosen Option :	4

Q.8	What is the normal range of temperature for a healthy human body in Kelvin?																
2																	
Ans	<input checked="" type="checkbox"/> 1. (308.15-315.15) K <input type="checkbox"/> 2. (293.15-323.15) K <input type="checkbox"/> 3. (301.15-323.15) K <input type="checkbox"/> 4. (283.15-323.15) K																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154532</td></tr> <tr><td>Option 1 ID :</td><td>441009613290</td></tr> <tr><td>Option 2 ID :</td><td>441009613292</td></tr> <tr><td>Option 3 ID :</td><td>441009613291</td></tr> <tr><td>Option 4 ID :</td><td>441009613293</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009154532	Option 1 ID :	441009613290	Option 2 ID :	441009613292	Option 3 ID :	441009613291	Option 4 ID :	441009613293	Status :	Answered	Chosen Option :	1
Question Type :	MCQ																
Question ID :	441009154532																
Option 1 ID :	441009613290																
Option 2 ID :	441009613292																
Option 3 ID :	441009613291																
Option 4 ID :	441009613293																
Status :	Answered																
Chosen Option :	1																
Q.8	Which of the following materials serves as a heat insulator?																
3																	
Ans	<input type="checkbox"/> 1. Copper <input type="checkbox"/> 2. Silver <input checked="" type="checkbox"/> 3. Plastic <input type="checkbox"/> 4. Aluminium																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154529</td></tr> <tr><td>Option 1 ID :</td><td>441009613280</td></tr> <tr><td>Option 2 ID :</td><td>441009613281</td></tr> <tr><td>Option 3 ID :</td><td>441009613278</td></tr> <tr><td>Option 4 ID :</td><td>441009613279</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009154529	Option 1 ID :	441009613280	Option 2 ID :	441009613281	Option 3 ID :	441009613278	Option 4 ID :	441009613279	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																
Question ID :	441009154529																
Option 1 ID :	441009613280																
Option 2 ID :	441009613281																
Option 3 ID :	441009613278																
Option 4 ID :	441009613279																
Status :	Answered																
Chosen Option :	3																
Q.8	What should come in place of the question mark (?) in the given series?																
4	197 112 189 129 181 146 173 163 ?																
Ans	<input type="checkbox"/> 1. 144 <input type="checkbox"/> 2. 156 <input checked="" type="checkbox"/> 3. 165 <input type="checkbox"/> 4. 153																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155607</td></tr> <tr><td>Option 1 ID :</td><td>441009617595</td></tr> <tr><td>Option 2 ID :</td><td>441009617597</td></tr> <tr><td>Option 3 ID :</td><td>441009617598</td></tr> <tr><td>Option 4 ID :</td><td>441009617596</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155607	Option 1 ID :	441009617595	Option 2 ID :	441009617597	Option 3 ID :	441009617598	Option 4 ID :	441009617596	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																
Question ID :	441009155607																
Option 1 ID :	441009617595																
Option 2 ID :	441009617597																
Option 3 ID :	441009617598																
Option 4 ID :	441009617596																
Status :	Answered																
Chosen Option :	3																

**Q.8** Neha swims in a pool that is 50 metres long. She covers 100 metres in 1 minute by swimming from one end of the pool to the other and back along the same straight path. Find her average velocity (in m/s).

- Ans**
- 1. 1.7 m/s
  - 2. 3.2 m/s
  - 3. 2.5 m/s
  - 4. 0 m/s

Question Type :	MCQ
Question ID :	441009160686
Option 1 ID :	441009636530
Option 2 ID :	441009636532
Option 3 ID :	441009636531
Option 4 ID :	441009636529
Status :	Answered
Chosen Option :	1

**Q.8** A, B, C and D are four partners in a business. A's investment is two-thirds of D's investment. B and C invest equal amounts, and C's investment is half of D's investment. If they earn ₹137.6 lakh at the end of one year, then find the total share (in ₹ lakh) of A and B put together.

- Ans**
- 1. 59.2
  - 2. 63.2
  - 3. 60.2
  - 4. 62.2

Question Type :	MCQ
Question ID :	441009160911
Option 1 ID :	441009637350
Option 2 ID :	441009637352
Option 3 ID :	441009637349
Option 4 ID :	441009637351
Status :	Answered
Chosen Option :	3

**Q.8** Which of the following is NOT a heat insulator?

- Ans**
- 1. Rubber
  - 2. Wool
  - 3. Silver
  - 4. Plastic

Question Type :	MCQ
Question ID :	441009154523
Option 1 ID :	441009613256
Option 2 ID :	441009613257
Option 3 ID :	441009613254
Option 4 ID :	441009613255
Status :	Answered
Chosen Option :	3

Q.8	The resistance of a particular material wire with length $L$ and cross-sectional area $A$ is $2\ \Omega$ . What would be the resistance of another wire of the same material having length $2L$ and area of cross-section $A/2$ ?																
Ans	<input checked="" type="checkbox"/> 1. $1\ \Omega$ <input checked="" type="checkbox"/> 2. $4\ \Omega$ <input checked="" type="checkbox"/> 3. $2\ \Omega$ <input checked="" type="checkbox"/> 4. $8\ \Omega$																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153527</td></tr> <tr><td>Option 1 ID :</td><td>441009609280</td></tr> <tr><td>Option 2 ID :</td><td>441009609281</td></tr> <tr><td>Option 3 ID :</td><td>441009609279</td></tr> <tr><td>Option 4 ID :</td><td>441009609278</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009153527	Option 1 ID :	441009609280	Option 2 ID :	441009609281	Option 3 ID :	441009609279	Option 4 ID :	441009609278	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																
Question ID :	441009153527																
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Option 2 ID :	441009609281																
Option 3 ID :	441009609279																
Option 4 ID :	441009609278																
Status :	Answered																
Chosen Option :	4																
Q.8	Which of the following processes is primarily responsible for heat loss from a hot utensil?																
Ans	<input checked="" type="checkbox"/> 1. Conduction <input checked="" type="checkbox"/> 2. Convection <input checked="" type="checkbox"/> 3. Absorption <input checked="" type="checkbox"/> 4. Radiation																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154518</td></tr> <tr><td>Option 1 ID :</td><td>441009613236</td></tr> <tr><td>Option 2 ID :</td><td>441009613234</td></tr> <tr><td>Option 3 ID :</td><td>441009613237</td></tr> <tr><td>Option 4 ID :</td><td>441009613235</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009154518	Option 1 ID :	441009613236	Option 2 ID :	441009613234	Option 3 ID :	441009613237	Option 4 ID :	441009613235	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																
Question ID :	441009154518																
Option 1 ID :	441009613236																
Option 2 ID :	441009613234																
Option 3 ID :	441009613237																
Option 4 ID :	441009613235																
Status :	Answered																
Chosen Option :	2																
Q.9	A, B, C, D, E, F and G are sitting around a circular table facing the centre. G is sitting second to the left of E. B is sitting third to the right of A. C is the immediate neighbour of both E and B. D is sitting to the immediate left of G. How many people are sitting between E and F when counted from the right of E?																
Ans	<input checked="" type="checkbox"/> 1. Two <input checked="" type="checkbox"/> 2. Three <input checked="" type="checkbox"/> 3. Four <input checked="" type="checkbox"/> 4. One																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009160834</td></tr> <tr><td>Option 1 ID :</td><td>441009637061</td></tr> <tr><td>Option 2 ID :</td><td>441009637062</td></tr> <tr><td>Option 3 ID :</td><td>441009637063</td></tr> <tr><td>Option 4 ID :</td><td>441009637060</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009160834	Option 1 ID :	441009637061	Option 2 ID :	441009637062	Option 3 ID :	441009637063	Option 4 ID :	441009637060	Status :	Answered	Chosen Option :	1
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Option 1 ID :	441009637061																
Option 2 ID :	441009637062																
Option 3 ID :	441009637063																
Option 4 ID :	441009637060																
Status :	Answered																
Chosen Option :	1																

<p><b>Q.9</b> 1</p>	<p>Which of the following statements is correct?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. On increasing the thickness of the conductor, resistance is increased.</p> <p><input checked="" type="checkbox"/> 2. On increasing the length of the conductor, resistance is increased.</p> <p><input type="checkbox"/> 3. On increasing the length of the conductor, resistance remains unchanged.</p> <p><input type="checkbox"/> 4. On increasing the length of the conductor, resistance is decreased.</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153547</td></tr> <tr><td>Option 1 ID :</td><td>441009609360</td></tr> <tr><td>Option 2 ID :</td><td>441009609358</td></tr> <tr><td>Option 3 ID :</td><td>441009609361</td></tr> <tr><td>Option 4 ID :</td><td>441009609359</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>			Question Type :	MCQ	Question ID :	441009153547	Option 1 ID :	441009609360	Option 2 ID :	441009609358	Option 3 ID :	441009609361	Option 4 ID :	441009609359	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																	
Question ID :	441009153547																	
Option 1 ID :	441009609360																	
Option 2 ID :	441009609358																	
Option 3 ID :	441009609361																	
Option 4 ID :	441009609359																	
Status :	Answered																	
Chosen Option :	2																	
<p><b>Q.9</b> 2</p>	<p>Given below are two statements numbered I and II. These statements may be independent causes or effects of independent causes or a common cause. One of the statements may be the effect of the other statement. Read both the statements carefully and select the correct answer.</p> <p><b>Statements:</b> Traffic police has issued a traffic advisory regarding the diversion of traffic for the next two days due to closure of Raj Bhavan Road. The Municipal Corporation is planning to repair the pot holes in Raj Bhavan Road tomorrow.</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. I is the cause and II is its possible effect.</p> <p><input type="checkbox"/> 2. Both I and II are effects of independent causes.</p> <p><input type="checkbox"/> 3. Both I and II are independent causes.</p> <p><input checked="" type="checkbox"/> 4. II is the cause and I is its possible effect.</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155685</td></tr> <tr><td>Option 1 ID :</td><td>441009617907</td></tr> <tr><td>Option 2 ID :</td><td>441009617910</td></tr> <tr><td>Option 3 ID :</td><td>441009617909</td></tr> <tr><td>Option 4 ID :</td><td>441009617908</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>			Question Type :	MCQ	Question ID :	441009155685	Option 1 ID :	441009617907	Option 2 ID :	441009617910	Option 3 ID :	441009617909	Option 4 ID :	441009617908	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																	
Question ID :	441009155685																	
Option 1 ID :	441009617907																	
Option 2 ID :	441009617910																	
Option 3 ID :	441009617909																	
Option 4 ID :	441009617908																	
Status :	Not Answered																	
Chosen Option :	--																	

**Q.9** Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

**3** #: EAG :: IEK : %

**Ans** ✓ 1. # = FBH, % = HDJ

✗ 2. # = FBG, % = HDJ

✗ 3. # = FBH, % = HEJ

✗ 4. # = FBH, % = HDI

Question Type : MCQ

Question ID : 441009155622

Option 1 ID : 441009617655

Option 2 ID : 441009617657

Option 3 ID : 441009617658

Option 4 ID : 441009617656

Status : Answered

Chosen Option : 1

**Q.9** Identify the correct pair of Personal Protective Equipment (PPE) categories based on the nature of the hazard.

**4** **Ans** ✗ 1. Non-respiratory: Safety goggles, Respiratory: Safety gloves

✓ 2. Non-respiratory: Safety helmet, Respiratory: Nose mask

✗ 3. Non-respiratory: Nose mask, Respiratory: Safety boots

✗ 4. Non-respiratory: Ear plugs, Respiratory: Safety shoes

Question Type : MCQ

Question ID : 441009156621

Option 1 ID : 441009621647

Option 2 ID : 441009621648

Option 3 ID : 441009621649

Option 4 ID : 441009621650

Status : Answered

Chosen Option : 2

Q.9 5	Which of the following statement(s) is/are true regarding electrical safety practices? 1. It is safe to plug multi-outlet bars into other multi-outlet bars as long as the total load does not exceed the rated capacity of the outlets. 2. Electrical equipment should not be used near wet surfaces or when your hands are wet, and power cords should be protected by avoiding placement under rugs or mats.																	
Ans	<input checked="" type="checkbox"/> 1. Both Statements 1 and 2 are true.																	
	<input checked="" type="checkbox"/> 2. Only Statement 2 is true.																	
	<input checked="" type="checkbox"/> 3. Only Statement 1 is true.																	
	<input checked="" type="checkbox"/> 4. Neither Statement 1 nor 2 is true.																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009161824</td></tr> <tr><td>Option 1 ID :</td><td>441009640951</td></tr> <tr><td>Option 2 ID :</td><td>441009640950</td></tr> <tr><td>Option 3 ID :</td><td>441009640949</td></tr> <tr><td>Option 4 ID :</td><td>441009640952</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>	Question Type :	MCQ	Question ID :	441009161824	Option 1 ID :	441009640951	Option 2 ID :	441009640950	Option 3 ID :	441009640949	Option 4 ID :	441009640952	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																	
Question ID :	441009161824																	
Option 1 ID :	441009640951																	
Option 2 ID :	441009640950																	
Option 3 ID :	441009640949																	
Option 4 ID :	441009640952																	
Status :	Not Answered																	
Chosen Option :	--																	
Q.9 6	Calculate the kinetic energy of a body of mass 10 kg moving with a uniform velocity of 5 m s <sup>-1</sup> .																	
Ans	<input checked="" type="checkbox"/> 1. 125 J																	
	<input checked="" type="checkbox"/> 2. 120 J																	
	<input checked="" type="checkbox"/> 3. 50 J																	
	<input checked="" type="checkbox"/> 4. 25 J																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153498</td></tr> <tr><td>Option 1 ID :</td><td>441009609163</td></tr> <tr><td>Option 2 ID :</td><td>441009609164</td></tr> <tr><td>Option 3 ID :</td><td>441009609162</td></tr> <tr><td>Option 4 ID :</td><td>441009609165</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>	Question Type :	MCQ	Question ID :	441009153498	Option 1 ID :	441009609163	Option 2 ID :	441009609164	Option 3 ID :	441009609162	Option 4 ID :	441009609165	Status :	Answered	Chosen Option :	1
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Question ID :	441009153498																	
Option 1 ID :	441009609163																	
Option 2 ID :	441009609164																	
Option 3 ID :	441009609162																	
Option 4 ID :	441009609165																	
Status :	Answered																	
Chosen Option :	1																	
Q.9 7	What is the recommended action before replacing a fuse?																	
Ans	<input checked="" type="checkbox"/> 1. Wear a safety belt.																	
	<input checked="" type="checkbox"/> 2. Use rubber gloves.																	
	<input checked="" type="checkbox"/> 3. Stand on a stool.																	
	<input checked="" type="checkbox"/> 4. Switch off circuit.																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156611</td></tr> <tr><td>Option 1 ID :</td><td>441009621607</td></tr> <tr><td>Option 2 ID :</td><td>441009621609</td></tr> <tr><td>Option 3 ID :</td><td>441009621610</td></tr> <tr><td>Option 4 ID :</td><td>441009621608</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>	Question Type :	MCQ	Question ID :	441009156611	Option 1 ID :	441009621607	Option 2 ID :	441009621609	Option 3 ID :	441009621610	Option 4 ID :	441009621608	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																	
Question ID :	441009156611																	
Option 1 ID :	441009621607																	
Option 2 ID :	441009621609																	
Option 3 ID :	441009621610																	
Option 4 ID :	441009621608																	
Status :	Answered																	
Chosen Option :	4																	

<b>Q.9</b>	If the arithmetic mean of A and B is 70 and the arithmetic mean of B and C is 110, what is the value of C - A?
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 90 <input checked="" type="checkbox"/> 2. 80 <input checked="" type="checkbox"/> 3. 60 <input checked="" type="checkbox"/> 4. 70

Question Type :	MCQ
Question ID :	441009160923
Option 1 ID :	441009637400
Option 2 ID :	441009637399
Option 3 ID :	441009637397
Option 4 ID :	441009637398
Status :	Answered
Chosen Option :	2

<b>Q.9</b>	Which ICT (Information and Communication Technology) service is commonly used for activities like railway reservation in e-Governance?
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Email services <input checked="" type="checkbox"/> 2. Social media platforms <input checked="" type="checkbox"/> 3. Web portals <input checked="" type="checkbox"/> 4. Online payment gateways

Question Type :	MCQ
Question ID :	441009156686
Option 1 ID :	441009621907
Option 2 ID :	441009621910
Option 3 ID :	441009621909
Option 4 ID :	441009621908
Status :	Answered
Chosen Option :	4

<b>Q.1</b>	The list price of an article is ₹5,100 and a discount of 32% is offered on the list price.
<b>00</b>	What additional discount per cent on the already discounted price must be offered to a customer to bring the net selling price to ₹1,734?
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 55% <input checked="" type="checkbox"/> 2. 46% <input checked="" type="checkbox"/> 3. 50% <input checked="" type="checkbox"/> 4. 49%

Question Type :	MCQ
Question ID :	441009153609
Option 1 ID :	441009609607
Option 2 ID :	441009609609
Option 3 ID :	441009609606
Option 4 ID :	441009609608
Status :	Answered
Chosen Option :	3

Section : PART-B

**Q.1** If a machine has an efficiency of 80%, it means:

- Ans**
- 1. the machine has a velocity ratio and mechanical advantage both equal to 80
  - 2. the machine loses 20% of the input
  - 3. the machine does not have any loss in input energy
  - 4. the machine produces more output than input

Question Type : MCQ

Question ID : 441009156648

Option 1 ID : 441009621757

Option 2 ID : 441009621756

Option 3 ID : 441009621758

Option 4 ID : 441009621755

Status : Answered

Chosen Option : 2

**Q.2** When did India implement the Hazardous Wastes (Management and Handling) Rules to regulate the disposal and handling of hazardous waste?

- Ans**
- 1. 1989
  - 2. 1987
  - 3. 1982
  - 4. 2000

Question Type : MCQ

Question ID : 441009156604

Option 1 ID : 441009621581

Option 2 ID : 441009621580

Option 3 ID : 441009621579

Option 4 ID : 441009621582

Status : Not Answered

Chosen Option : --

**Q.3** What is the function of cooling fins in a tubular-type radiator core?

- Ans**
- 1. To support tubes
  - 2. To strengthen structure
  - 3. To circulate water
  - 4. To absorb and radiate heat

Question Type : MCQ

Question ID : 441009155338

Option 1 ID : 441009616500

Option 2 ID : 441009616501

Option 3 ID : 441009616498

Option 4 ID : 441009616499

Status : Answered

Chosen Option : 4

<b>Q.4</b>	What is the primary principle behind the generation of electrical energy in a piezoelectric device?																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Conversion of mechanical stress into electrical energy <input type="checkbox"/> 2. Conversion of light energy into electrical energy <input type="checkbox"/> 3. Conversion of chemical energy into electrical energy <input type="checkbox"/> 4. Conversion of thermal energy into electrical energy																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156521</td></tr> <tr><td>Option 1 ID :</td><td>441009621248</td></tr> <tr><td>Option 2 ID :</td><td>441009621249</td></tr> <tr><td>Option 3 ID :</td><td>441009621250</td></tr> <tr><td>Option 4 ID :</td><td>441009621247</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156521	Option 1 ID :	441009621248	Option 2 ID :	441009621249	Option 3 ID :	441009621250	Option 4 ID :	441009621247	Status :	Answered	Chosen Option :	1
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Option 4 ID :	441009621247																
Status :	Answered																
Chosen Option :	1																
<b>Q.5</b>	Which of the following punch marks is used for the correct location and seating of the divider point?																
<b>Ans</b>	<input type="checkbox"/> 1. Centre punch marks of 60° <input checked="" type="checkbox"/> 2. Prick punch marks of 30° <input type="checkbox"/> 3. Prick punch marks of 120° <input type="checkbox"/> 4. Centre punch marks of 30°																
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Option 3 ID :	441009621732																
Option 4 ID :	441009621733																
Status :	Not Answered																
Chosen Option :	--																
<b>Q.6</b>	What is the accuracy level of a vernier caliper that can be read?																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 0.02 mm <input type="checkbox"/> 2. 0.01 mm <input type="checkbox"/> 3. 0.1 mm <input type="checkbox"/> 4. 0.2 mm																
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Option 2 ID :	441009615540																
Option 3 ID :	441009615538																
Option 4 ID :	441009615539																
Status :	Answered																
Chosen Option :	1																

**Q.7** Which of the following emission control devices is a charcoal filled device?

**Ans**  1. EGR valve  
 2. EVAP canister  
 3. Oxygen sensor  
 4. Catalytic converter

Question Type :	MCQ
Question ID :	441009155292
Option 1 ID :	441009616316
Option 2 ID :	441009616314
Option 3 ID :	441009616317
Option 4 ID :	441009616315
Status :	Not Answered
Chosen Option :	--

**Q.8** Match the correct length and breadth of the Trimmed sizes of sheets.

Designation	Trimmed size
A. A0	P. 297 × 420
B. A1	Q. 420 × 594
C. A2	R. 594 × 841
D. A3	S. 841 × 1189

**Ans**  1. A - S, B - R, C - Q, D - P  
 2. A - R, B - S, C - Q, D - P  
 3. A - S, B - R, C - P, D - Q  
 4. A - P, B - R, C - Q, D - S

Question Type :	MCQ
Question ID :	441009156538
Option 1 ID :	441009621315
Option 2 ID :	441009621318
Option 3 ID :	441009621316
Option 4 ID :	441009621317
Status :	Answered
Chosen Option :	1

<b>Q.9</b>	When drawing a curved line of a specific length in an engineering drawing, which tool is most appropriate for ensuring accuracy?
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Protractor <input checked="" type="checkbox"/> 2. Straightedge <input checked="" type="checkbox"/> 3. French Curve <input checked="" type="checkbox"/> 4. Compass

Question Type :	MCQ
Question ID :	441009156573
Option 1 ID :	441009621456
Option 2 ID :	441009621455
Option 3 ID :	441009621457
Option 4 ID :	441009621458
Status :	Answered
Chosen Option :	3

<b>Q.10</b>	Which of the following statements is correct about a protractor?
<b>Statements:</b>	1. A protractor can be used to measure angles from both sides. 2. A protractor is typically made of a rigid metal material.
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Neither statement is true <input checked="" type="checkbox"/> 2. Only statement 1 is true <input checked="" type="checkbox"/> 3. Only statement 2 is true <input checked="" type="checkbox"/> 4. Both statements are true

Question Type :	MCQ
Question ID :	441009156578
Option 1 ID :	441009621478
Option 2 ID :	441009621475
Option 3 ID :	441009621476
Option 4 ID :	441009621477
Status :	Answered
Chosen Option :	4

<b>Q.11</b>	A cylinder head gasket is incorporated between which of the following two parts of the engine?
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Puppert valve and cylinder block <input checked="" type="checkbox"/> 2. Cylinder block and cylinder head <input checked="" type="checkbox"/> 3. Piston ring and cylinder head <input checked="" type="checkbox"/> 4. Cylinder head and water jacket

Question Type :	MCQ
Question ID :	441009155053
Option 1 ID :	441009615360
Option 2 ID :	441009615359
Option 3 ID :	441009615358
Option 4 ID :	441009615361
Status :	Not Answered
Chosen Option :	--

Q.1	What does SCR stand for in the diesel exhaust treatment?																
2																	
Ans	<input checked="" type="checkbox"/> 1. Solid Catalytic Reduction <input checked="" type="checkbox"/> 2. Selective Catalytic Reduction <input checked="" type="checkbox"/> 3. Standard Catalytic Reaction <input checked="" type="checkbox"/> 4. Selective Carbon Reduction																
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Option 2 ID :	441009616311																
Option 3 ID :	441009616313																
Option 4 ID :	441009616312																
Status :	Answered																
Chosen Option :	2																

  

Q.1	Which component assists the pneumatic governor of FIP in diesel engines?																
3																	
Ans	<input checked="" type="checkbox"/> 1. Intercooler <input checked="" type="checkbox"/> 2. Turbocharger <input checked="" type="checkbox"/> 3. Exhauster <input checked="" type="checkbox"/> 4. Fuel injector																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155327</td></tr> <tr><td>Option 1 ID :</td><td>441009616457</td></tr> <tr><td>Option 2 ID :</td><td>441009616454</td></tr> <tr><td>Option 3 ID :</td><td>441009616456</td></tr> <tr><td>Option 4 ID :</td><td>441009616455</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155327	Option 1 ID :	441009616457	Option 2 ID :	441009616454	Option 3 ID :	441009616456	Option 4 ID :	441009616455	Status :	Answered	Chosen Option :	4
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Option 2 ID :	441009616454																
Option 3 ID :	441009616456																
Option 4 ID :	441009616455																
Status :	Answered																
Chosen Option :	4																

  

Q.1	The basic function of the connecting rod is to convert:																
4																	
Ans	<input checked="" type="checkbox"/> 1. the linear motion of the crankshaft into rotary motion of piston <input checked="" type="checkbox"/> 2. the reciprocating motion of piston to the rotary motion of the crankshaft <input checked="" type="checkbox"/> 3. the reciprocating motion of piston head to the rotary motion of the camshaft <input checked="" type="checkbox"/> 4. the curvilinear motion of piston to the linear motion of the camshaft																
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Option 3 ID :	441009615317																
Option 4 ID :	441009615316																
Status :	Answered																
Chosen Option :	2																

<p><b>Q.1</b> Which of the following parts of a dial bore gauge is used to hold all the components together and contains a mechanism for transmitting the plunger motion to the dial?</p> <p><b>5</b></p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. Anvil</p> <p><input checked="" type="checkbox"/> 2. Extension rings</p> <p><input checked="" type="checkbox"/> 3. Stem</p> <p><input checked="" type="checkbox"/> 4. Sliding plunger</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155096</td></tr> <tr><td>Option 1 ID :</td><td>441009615531</td></tr> <tr><td>Option 2 ID :</td><td>441009615533</td></tr> <tr><td>Option 3 ID :</td><td>441009615532</td></tr> <tr><td>Option 4 ID :</td><td>441009615530</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>	Question Type :	MCQ	Question ID :	441009155096	Option 1 ID :	441009615531	Option 2 ID :	441009615533	Option 3 ID :	441009615532	Option 4 ID :	441009615530	Status :	Answered	Chosen Option :	3
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Option 3 ID :	441009615532																
Option 4 ID :	441009615530																
Status :	Answered																
Chosen Option :	3																
<p><b>Q.1</b> What is the function of non-return valve (NRV) in a hydraulic system?</p> <p><b>6</b></p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. To increase system temperature</p> <p><input checked="" type="checkbox"/> 2. To control the viscosity of the fluid</p> <p><input checked="" type="checkbox"/> 3. To control the pressure in both directions</p> <p><input checked="" type="checkbox"/> 4. To allow flow in one direction</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155309</td></tr> <tr><td>Option 1 ID :</td><td>441009616384</td></tr> <tr><td>Option 2 ID :</td><td>441009616385</td></tr> <tr><td>Option 3 ID :</td><td>441009616383</td></tr> <tr><td>Option 4 ID :</td><td>441009616382</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>	Question Type :	MCQ	Question ID :	441009155309	Option 1 ID :	441009616384	Option 2 ID :	441009616385	Option 3 ID :	441009616383	Option 4 ID :	441009616382	Status :	Answered	Chosen Option :	4
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Option 3 ID :	441009616383																
Option 4 ID :	441009616382																
Status :	Answered																
Chosen Option :	4																
<p><b>Q.1</b> As per the SAE viscosity rating, which of the following numbers reflects thicker oil that better resists viscosity breakdown in the summer season?</p> <p><b>7</b></p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. 40W to 50W</p> <p><input checked="" type="checkbox"/> 2. 100W to 160W</p> <p><input checked="" type="checkbox"/> 3. -6W to -70W</p> <p><input checked="" type="checkbox"/> 4. 0W to 5W</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155025</td></tr> <tr><td>Option 1 ID :</td><td>441009615248</td></tr> <tr><td>Option 2 ID :</td><td>441009615249</td></tr> <tr><td>Option 3 ID :</td><td>441009615247</td></tr> <tr><td>Option 4 ID :</td><td>441009615246</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>	Question Type :	MCQ	Question ID :	441009155025	Option 1 ID :	441009615248	Option 2 ID :	441009615249	Option 3 ID :	441009615247	Option 4 ID :	441009615246	Status :	Not Answered	Chosen Option :	--
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Option 4 ID :	441009615246																
Status :	Not Answered																
Chosen Option :	--																

Q.1	Which of the following is an example of a p-type semiconductor?																
8																	
Ans	<input checked="" type="checkbox"/> 1. Germanium doped with phosphorus <input checked="" type="checkbox"/> 2. Silicon doped with arsenic <input checked="" type="checkbox"/> 3. Silicon doped with boron <input checked="" type="checkbox"/> 4. Silicon doped with phosphorus																
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Option 3 ID :	441009621244																
Option 4 ID :	441009621243																
Status :	Not Answered																
Chosen Option :	--																
Q.1	Which of the following parts of an engine adjusts the opening times of the valves to suit all operating conditions and ensures ideal charge cycles within a wide range of engine speeds and loads?																
9																	
Ans	<input checked="" type="checkbox"/> 1. Crank <input checked="" type="checkbox"/> 2. Camshaft <input checked="" type="checkbox"/> 3. Rocker arm <input checked="" type="checkbox"/> 4. Crankshaft																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155054</td></tr> <tr><td>Option 1 ID :</td><td>441009615364</td></tr> <tr><td>Option 2 ID :</td><td>441009615363</td></tr> <tr><td>Option 3 ID :</td><td>441009615365</td></tr> <tr><td>Option 4 ID :</td><td>441009615362</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155054	Option 1 ID :	441009615364	Option 2 ID :	441009615363	Option 3 ID :	441009615365	Option 4 ID :	441009615362	Status :	Answered	Chosen Option :	2
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Option 2 ID :	441009615363																
Option 3 ID :	441009615365																
Option 4 ID :	441009615362																
Status :	Answered																
Chosen Option :	2																
Q.2	_____ is a type of spring that is often used as part of the vehicle clutch assembly, and its main function is to engage and disengage the pressure plate and the driven plate (clutch disk).																
0																	
Ans	<input checked="" type="checkbox"/> 1. Diaphragm spring <input checked="" type="checkbox"/> 2. Spiral spring <input checked="" type="checkbox"/> 3. Laminated spring <input checked="" type="checkbox"/> 4. Leaf spring																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155012</td></tr> <tr><td>Option 1 ID :</td><td>441009615196</td></tr> <tr><td>Option 2 ID :</td><td>441009615197</td></tr> <tr><td>Option 3 ID :</td><td>441009615195</td></tr> <tr><td>Option 4 ID :</td><td>441009615194</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155012	Option 1 ID :	441009615196	Option 2 ID :	441009615197	Option 3 ID :	441009615195	Option 4 ID :	441009615194	Status :	Answered	Chosen Option :	1
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Option 4 ID :	441009615194																
Status :	Answered																
Chosen Option :	1																

Q.2 1	Which of the following is a correct function of the indirect injection combustion chamber?																
Ans	<input checked="" type="checkbox"/> 1. It accommodates the port (Inlet and Outlet) for In & Out of air. <input checked="" type="checkbox"/> 2. It houses and guides the crankshaft. <input checked="" type="checkbox"/> 3. It does not have properties to withstand temperature variations. <input checked="" type="checkbox"/> 4. There is a confined space in it, in which the air and fuel mixtures are burned.																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155064</td></tr> <tr><td>Option 1 ID :</td><td>441009615402</td></tr> <tr><td>Option 2 ID :</td><td>441009615403</td></tr> <tr><td>Option 3 ID :</td><td>441009615405</td></tr> <tr><td>Option 4 ID :</td><td>441009615404</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155064	Option 1 ID :	441009615402	Option 2 ID :	441009615403	Option 3 ID :	441009615405	Option 4 ID :	441009615404	Status :	Answered	Chosen Option :	4
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Option 3 ID :	441009615405																
Option 4 ID :	441009615404																
Status :	Answered																
Chosen Option :	4																
Q.2 2	What does an optical pyrometer measure?																
Ans	<input checked="" type="checkbox"/> 1. The pressure of gases <input checked="" type="checkbox"/> 2. The temperature of the surface <input checked="" type="checkbox"/> 3. The volume of liquids <input checked="" type="checkbox"/> 4. The relative density of liquids																
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Option 3 ID :	441009640988																
Option 4 ID :	441009640986																
Status :	Answered																
Chosen Option :	2																
Q.2 3	In which part of the IC engine does a piston move during operation?																
Ans	<input checked="" type="checkbox"/> 1. Cylinder head <input checked="" type="checkbox"/> 2. Crankcase <input checked="" type="checkbox"/> 3. Sump <input checked="" type="checkbox"/> 4. Cylinder liner																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155007</td></tr> <tr><td>Option 1 ID :</td><td>441009615175</td></tr> <tr><td>Option 2 ID :</td><td>441009615174</td></tr> <tr><td>Option 3 ID :</td><td>441009615177</td></tr> <tr><td>Option 4 ID :</td><td>441009615176</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155007	Option 1 ID :	441009615175	Option 2 ID :	441009615174	Option 3 ID :	441009615177	Option 4 ID :	441009615176	Status :	Answered	Chosen Option :	4
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Option 4 ID :	441009615176																
Status :	Answered																
Chosen Option :	4																

Q.2 4	A torsion bar is a steel bar operated by:																			
Ans	<input type="checkbox"/> 1. both tensile and compressive stresses																			
	<input type="checkbox"/> 2. both compressive stress and twisting stress																			
	<input type="checkbox"/> 3. both shear strain and longitudinal strain																			
	<input checked="" type="checkbox"/> 4. both twisting and shear stresses																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155017</td></tr> <tr><td>Option 1 ID :</td><td>441009615217</td></tr> <tr><td>Option 2 ID :</td><td>441009615216</td></tr> <tr><td>Option 3 ID :</td><td>441009615214</td></tr> <tr><td>Option 4 ID :</td><td>441009615215</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>					Question Type :	MCQ	Question ID :	441009155017	Option 1 ID :	441009615217	Option 2 ID :	441009615216	Option 3 ID :	441009615214	Option 4 ID :	441009615215	Status :	Answered	Chosen Option :	4
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Option 3 ID :	441009615214																			
Option 4 ID :	441009615215																			
Status :	Answered																			
Chosen Option :	4																			
Q.2 5	What component blows air across the intercooler fins?																			
Ans	<input type="checkbox"/> 1. Exhaust fan																			
	<input checked="" type="checkbox"/> 2. Engine cooling fan																			
	<input type="checkbox"/> 3. Turbocharger																			
	<input type="checkbox"/> 4. Air filter																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155326</td></tr> <tr><td>Option 1 ID :</td><td>441009616452</td></tr> <tr><td>Option 2 ID :</td><td>441009616450</td></tr> <tr><td>Option 3 ID :</td><td>441009616453</td></tr> <tr><td>Option 4 ID :</td><td>441009616451</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>					Question Type :	MCQ	Question ID :	441009155326	Option 1 ID :	441009616452	Option 2 ID :	441009616450	Option 3 ID :	441009616453	Option 4 ID :	441009616451	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																			
Question ID :	441009155326																			
Option 1 ID :	441009616452																			
Option 2 ID :	441009616450																			
Option 3 ID :	441009616453																			
Option 4 ID :	441009616451																			
Status :	Answered																			
Chosen Option :	2																			
Q.2 6	Which of the following is true for a given fixed compression ratio?																			
Ans	<input type="checkbox"/> 1. Dual cycle is the most efficient.																			
	<input checked="" type="checkbox"/> 2. Otto cycle is the most efficient.																			
	<input type="checkbox"/> 3. Diesel cycle is the most efficient.																			
	<input type="checkbox"/> 4. Both Otto and Diesel cycles are equally efficient.																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155079</td></tr> <tr><td>Option 1 ID :</td><td>441009615465</td></tr> <tr><td>Option 2 ID :</td><td>441009615463</td></tr> <tr><td>Option 3 ID :</td><td>441009615464</td></tr> <tr><td>Option 4 ID :</td><td>441009615462</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>					Question Type :	MCQ	Question ID :	441009155079	Option 1 ID :	441009615465	Option 2 ID :	441009615463	Option 3 ID :	441009615464	Option 4 ID :	441009615462	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																			
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Option 1 ID :	441009615465																			
Option 2 ID :	441009615463																			
Option 3 ID :	441009615464																			
Option 4 ID :	441009615462																			
Status :	Answered																			
Chosen Option :	2																			

Q.2 7	A device operates at 240 V and consumes 480 W of power. What is the current flowing through the device?
Ans	<input type="checkbox"/> 1. 1 A
	<input type="checkbox"/> 2. 2.5 A
	<input checked="" type="checkbox"/> 3. 2 A
	<input type="checkbox"/> 4. 1.5 A

Question Type :	MCQ
Question ID :	441009156536
Option 1 ID :	441009621307
Option 2 ID :	441009621310
Option 3 ID :	441009621309
Option 4 ID :	441009621308
Status :	Answered
Chosen Option :	3

Q.2 8	Final drive is the last stage of power transmission from the propeller shaft to rear axles and then to the wheels. To which of the following angles does it turn the propeller shaft motion?
Ans	<input type="checkbox"/> 1. Equal and opposite angle to drive the rear axle
	<input type="checkbox"/> 2. 45 degree angle to drive the rear axle
	<input type="checkbox"/> 3. -45 degree to drive the front axle
	<input checked="" type="checkbox"/> 4. Right angle to drive the rear axle

Question Type :	MCQ
Question ID :	441009155000
Option 1 ID :	441009615147
Option 2 ID :	441009615148
Option 3 ID :	441009615149
Option 4 ID :	441009615146
Status :	Not Answered
Chosen Option :	--



**Q.2**  
9 Identify the type of brazed joint shown below.



**Ans**

- 1. Butted Flange
- 2. Strapped Lap
- 3. Simple Lap
- 4. Joggle Lap

Question Type :	MCQ
Question ID :	441009156556
Option 1 ID :	441009621390
Option 2 ID :	441009621387
Option 3 ID :	441009621388
Option 4 ID :	441009621389
Status :	Answered
Chosen Option :	3

**Q.3**  
0 Which of the following is a fundamental unit?

**Ans**

- 1. newton
- 2. watt
- 3. pascal
- 4. metre

Question Type :	MCQ
Question ID :	441009161838
Option 1 ID :	441009641005
Option 2 ID :	441009641006
Option 3 ID :	441009641008
Option 4 ID :	441009641007
Status :	Answered
Chosen Option :	4

<b>Q.3</b> 1	Which of the following types of valves is NOT used in the four stroke engine?																
<b>Ans</b>	✗ 1. Rotary valves ✗ 2. Poppet valves ✗ 3. Reed valves ✓ 4. Butterfly valves																
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155061</td></tr> <tr><td>Option 1 ID :</td><td>441009615390</td></tr> <tr><td>Option 2 ID :</td><td>441009615391</td></tr> <tr><td>Option 3 ID :</td><td>441009615392</td></tr> <tr><td>Option 4 ID :</td><td>441009615393</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155061	Option 1 ID :	441009615390	Option 2 ID :	441009615391	Option 3 ID :	441009615392	Option 4 ID :	441009615393	Status :	Answered	Chosen Option :	1
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Option 2 ID :	441009615391																
Option 3 ID :	441009615392																
Option 4 ID :	441009615393																
Status :	Answered																
Chosen Option :	1																
<b>Q.3</b> 2	Why are fins provided over the cylinder in air-cooled engines?																
<b>Ans</b>	✓ 1. To increase cooling surface ✗ 2. To provide structural support ✗ 3. To reduce engine noise ✗ 4. For direct air flow																
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155343</td></tr> <tr><td>Option 1 ID :</td><td>441009616519</td></tr> <tr><td>Option 2 ID :</td><td>441009616521</td></tr> <tr><td>Option 3 ID :</td><td>441009616520</td></tr> <tr><td>Option 4 ID :</td><td>441009616518</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155343	Option 1 ID :	441009616519	Option 2 ID :	441009616521	Option 3 ID :	441009616520	Option 4 ID :	441009616518	Status :	Answered	Chosen Option :	1
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Option 2 ID :	441009616521																
Option 3 ID :	441009616520																
Option 4 ID :	441009616518																
Status :	Answered																
Chosen Option :	1																
<b>Q.3</b> 3	What is the primary purpose of applying brakes in a vehicle?																
<b>Ans</b>	✓ 1. To stop or slow down the vehicle ✗ 2. To improve fuel efficiency ✗ 3. To increase the speed of the vehicle ✗ 4. To open the fuel tank																
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155081</td></tr> <tr><td>Option 1 ID :</td><td>441009615471</td></tr> <tr><td>Option 2 ID :</td><td>441009615472</td></tr> <tr><td>Option 3 ID :</td><td>441009615470</td></tr> <tr><td>Option 4 ID :</td><td>441009615473</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155081	Option 1 ID :	441009615471	Option 2 ID :	441009615472	Option 3 ID :	441009615470	Option 4 ID :	441009615473	Status :	Answered	Chosen Option :	1
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Option 2 ID :	441009615472																
Option 3 ID :	441009615470																
Option 4 ID :	441009615473																
Status :	Answered																
Chosen Option :	1																

Q.3 4	What type of bearing is fitted into the connecting rod, allowing the gudgeon pin to provide bearing for the oscillating small end of the connecting rod?																
Ans	<input checked="" type="checkbox"/> 1. Journal bearing <input checked="" type="checkbox"/> 2. Needle bearing <input checked="" type="checkbox"/> 3. Tapper roller bearing <input checked="" type="checkbox"/> 4. Ball bearing																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155047</td></tr> <tr><td>Option 1 ID :</td><td>441009615334</td></tr> <tr><td>Option 2 ID :</td><td>441009615336</td></tr> <tr><td>Option 3 ID :</td><td>441009615337</td></tr> <tr><td>Option 4 ID :</td><td>441009615335</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155047	Option 1 ID :	441009615334	Option 2 ID :	441009615336	Option 3 ID :	441009615337	Option 4 ID :	441009615335	Status :	Not Answered	Chosen Option :	--
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Option 1 ID :	441009615334																
Option 2 ID :	441009615336																
Option 3 ID :	441009615337																
Option 4 ID :	441009615335																
Status :	Not Answered																
Chosen Option :	--																
Q.3 5	As the piston moves up to create a compression force, which of the following parts movements leads to inlet valve closure in engine?																
Ans	<input checked="" type="checkbox"/> 1. Helical spring movement <input checked="" type="checkbox"/> 2. Crankshaft movement <input checked="" type="checkbox"/> 3. Camshaft movement <input checked="" type="checkbox"/> 4. Connecting rod movement																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155060</td></tr> <tr><td>Option 1 ID :</td><td>441009615386</td></tr> <tr><td>Option 2 ID :</td><td>441009615387</td></tr> <tr><td>Option 3 ID :</td><td>441009615388</td></tr> <tr><td>Option 4 ID :</td><td>441009615389</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155060	Option 1 ID :	441009615386	Option 2 ID :	441009615387	Option 3 ID :	441009615388	Option 4 ID :	441009615389	Status :	Answered	Chosen Option :	3
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Question ID :	441009155060																
Option 1 ID :	441009615386																
Option 2 ID :	441009615387																
Option 3 ID :	441009615388																
Option 4 ID :	441009615389																
Status :	Answered																
Chosen Option :	3																
Q.3 6	A type of chamber in which the combustion space is essentially a single cavity with little restriction on one part of the chamber to the other, and hence with no large difference in pressure between parts of the chamber during the combustion process is known as:																
Ans	<input checked="" type="checkbox"/> 1. air-cell combustion chamber <input checked="" type="checkbox"/> 2. open combustion chamber <input checked="" type="checkbox"/> 3. pre-combustion chamber <input checked="" type="checkbox"/> 4. shallow depth combustion chamber																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155065</td></tr> <tr><td>Option 1 ID :</td><td>441009615408</td></tr> <tr><td>Option 2 ID :</td><td>441009615406</td></tr> <tr><td>Option 3 ID :</td><td>441009615409</td></tr> <tr><td>Option 4 ID :</td><td>441009615407</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155065	Option 1 ID :	441009615408	Option 2 ID :	441009615406	Option 3 ID :	441009615409	Option 4 ID :	441009615407	Status :	Not Answered	Chosen Option :	--
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Question ID :	441009155065																
Option 1 ID :	441009615408																
Option 2 ID :	441009615406																
Option 3 ID :	441009615409																
Option 4 ID :	441009615407																
Status :	Not Answered																
Chosen Option :	--																

<p><b>Q.3</b> 7</p>	<p>Which of the following types of wooden mallets are used for general purpose work such as flattening and bending?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. End-faked mallets</p> <p><input type="checkbox"/> 2. Bossing mallets</p> <p><input checked="" type="checkbox"/> 3. Standard wooden mallets</p> <p><input type="checkbox"/> 4. Side-faked mallets</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156636</td></tr> <tr><td>Option 1 ID :</td><td>441009621709</td></tr> <tr><td>Option 2 ID :</td><td>441009621708</td></tr> <tr><td>Option 3 ID :</td><td>441009621707</td></tr> <tr><td>Option 4 ID :</td><td>441009621710</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>			Question Type :	MCQ	Question ID :	441009156636	Option 1 ID :	441009621709	Option 2 ID :	441009621708	Option 3 ID :	441009621707	Option 4 ID :	441009621710	Status :	Not Answered	Chosen Option :	--
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Question ID :	441009156636																	
Option 1 ID :	441009621709																	
Option 2 ID :	441009621708																	
Option 3 ID :	441009621707																	
Option 4 ID :	441009621710																	
Status :	Not Answered																	
Chosen Option :	--																	
<p><b>Q.3</b> 8</p>	<p>The exhaust gases in a two stroke engine are driven out by:</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. fresh charge of fuel entering the cylinder nearly at the end of the compression stroke</p> <p><input type="checkbox"/> 2. fresh air entering the casing nearly at the end of the suction stroke</p> <p><input type="checkbox"/> 3. left out charge of fuel from exhaust entering the cylinder nearly at the end of the working stroke</p> <p><input checked="" type="checkbox"/> 4. fresh charge of fuel entering the cylinder nearly at the end of the working stroke</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155076</td></tr> <tr><td>Option 1 ID :</td><td>441009615450</td></tr> <tr><td>Option 2 ID :</td><td>441009615453</td></tr> <tr><td>Option 3 ID :</td><td>441009615451</td></tr> <tr><td>Option 4 ID :</td><td>441009615452</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>			Question Type :	MCQ	Question ID :	441009155076	Option 1 ID :	441009615450	Option 2 ID :	441009615453	Option 3 ID :	441009615451	Option 4 ID :	441009615452	Status :	Answered	Chosen Option :	4
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Question ID :	441009155076																	
Option 1 ID :	441009615450																	
Option 2 ID :	441009615453																	
Option 3 ID :	441009615451																	
Option 4 ID :	441009615452																	
Status :	Answered																	
Chosen Option :	4																	
<p><b>Q.3</b> 9</p>	<p>Which of the following statements is/are correct?                  Statement I - The annealing process uses heat to reduce the hardness and increase the ductility and toughness of various steels, cast iron, and alloys.                  Statement II - Quenching is a rapid cooling process that alters specific properties of materials by manipulating the cooling rate.</p>																	
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. Statement (I) and (II) both are correct.</p> <p><input type="checkbox"/> 2. Statement (I) is incorrect but Statement (II) is correct.</p> <p><input type="checkbox"/> 3. Statement (I) is correct but Statement (II) is incorrect.</p> <p><input type="checkbox"/> 4. Statement (I) and (II) both are incorrect.</p>																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156643</td></tr> <tr><td>Option 1 ID :</td><td>441009621735</td></tr> <tr><td>Option 2 ID :</td><td>441009621737</td></tr> <tr><td>Option 3 ID :</td><td>441009621736</td></tr> <tr><td>Option 4 ID :</td><td>441009621738</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>			Question Type :	MCQ	Question ID :	441009156643	Option 1 ID :	441009621735	Option 2 ID :	441009621737	Option 3 ID :	441009621736	Option 4 ID :	441009621738	Status :	Answered	Chosen Option :	1
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Question ID :	441009156643																	
Option 1 ID :	441009621735																	
Option 2 ID :	441009621737																	
Option 3 ID :	441009621736																	
Option 4 ID :	441009621738																	
Status :	Answered																	
Chosen Option :	1																	

**Q.4 0** Which of the following statements is correct about a diesel cycle and its air standard efficiency with respect to the compression ratio?

**Ans** ✓ 1. The air standard efficiency of a diesel cycle increases with the increase in the compression ratio.

✗ 2. The air standard efficiency decreases with the increase in the compression ratio.

✗ 3. The maximum compression ratio for the diesel engine is limited by detonation.

✗ 4. For a given compression ratio, Otto cycle is the least efficient while the diesel cycle is the most efficient.

Question Type :	MCQ
Question ID :	441009155078
Option 1 ID :	441009615458
Option 2 ID :	441009615459
Option 3 ID :	441009615461
Option 4 ID :	441009615460
Status :	Answered
Chosen Option :	1

**Q.4 1** Which of the following methods is implemented for locking a semi floating type piston pin?

**Ans** ✗ 1. Gluing

✓ 2. Screw

✗ 3. Welding

✗ 4. Riveting

Question Type :	MCQ
Question ID :	441009155038
Option 1 ID :	441009615301
Option 2 ID :	441009615300
Option 3 ID :	441009615298
Option 4 ID :	441009615299
Status :	Not Answered
Chosen Option :	--

**Q.4 2** Why do diesel engines generally produce more noise, vibration, and harshness (NVH) compared to petrol engines?

**Ans** ✗ 1. Due to lower combustion temperature

✗ 2. Due to simpler combustion method

✗ 3. Due to less efficient fuel usage

✓ 4. Due to rapid combustion pressure and high pressure

Question Type :	MCQ
Question ID :	441009155331
Option 1 ID :	441009616470
Option 2 ID :	441009616471
Option 3 ID :	441009616473
Option 4 ID :	441009616472
Status :	Answered
Chosen Option :	4

Q.4 3	Which of the following types of shafts allows easy implementation of a 4 valve per cylinder configuration?
Ans	<input checked="" type="checkbox"/> 1. Crankshaft of multicylinder engine setup <input checked="" type="checkbox"/> 2. Single overhead cam setup <input checked="" type="checkbox"/> 3. Dual overhead cam setup <input checked="" type="checkbox"/> 4. Cam and follower rocker arm setup

Question Type :	MCQ
Question ID :	441009155031
Option 1 ID :	441009615273
Option 2 ID :	441009615271
Option 3 ID :	441009615270
Option 4 ID :	441009615272
Status :	Not Answered
Chosen Option :	--

Q.4 4	In engineering drawing (lettering and numbering), a single stroke means that the _____.
Ans	<input checked="" type="checkbox"/> 1. thickness of the line of the letter or number is obtained in three strokes of the pencil <input checked="" type="checkbox"/> 2. thickness of the line of the letter or number is obtained in one stroke of the pencil <input checked="" type="checkbox"/> 3. thickness of the line of the letter or number is obtained in two strokes of the pencil <input checked="" type="checkbox"/> 4. thickness of the line of the letter or number is obtained in no strokes of the pencil

Question Type :	MCQ
Question ID :	441009156545
Option 1 ID :	441009621344
Option 2 ID :	441009621343
Option 3 ID :	441009621346
Option 4 ID :	441009621345
Status :	Not Answered
Chosen Option :	--

Q.4 5	Which of the following is a cause of high oil consumption in the engine cylinder?
Ans	<input checked="" type="checkbox"/> 1. Blocked oil strainer <input checked="" type="checkbox"/> 2. Oil reaching to combustion <input checked="" type="checkbox"/> 3. High oil level in the sump <input checked="" type="checkbox"/> 4. Worn out oil pump gear

Question Type :	MCQ
Question ID :	441009155317
Option 1 ID :	441009616414
Option 2 ID :	441009616415
Option 3 ID :	441009616417
Option 4 ID :	441009616416
Status :	Answered
Chosen Option :	4

Q.4 6	Which of the following uses of wire gauge is INCORRECT?																
Ans	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 1. It does not help determine how much current a wire can carry.</li> <li><input type="checkbox"/> 2. It is used in electrical installations, welding and other applications.</li> <li><input type="checkbox"/> 3. Using the wrong wire gauge can damage appliances and electronic devices.</li> <li><input type="checkbox"/> 4. It measures the diameter of a wire.</li> </ul>																
<table border="1" style="margin-left: auto; margin-right: 0;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156626</td></tr> <tr><td>Option 1 ID :</td><td>441009621669</td></tr> <tr><td>Option 2 ID :</td><td>441009621668</td></tr> <tr><td>Option 3 ID :</td><td>441009621670</td></tr> <tr><td>Option 4 ID :</td><td>441009621667</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>3</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156626	Option 1 ID :	441009621669	Option 2 ID :	441009621668	Option 3 ID :	441009621670	Option 4 ID :	441009621667	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																
Question ID :	441009156626																
Option 1 ID :	441009621669																
Option 2 ID :	441009621668																
Option 3 ID :	441009621670																
Option 4 ID :	441009621667																
Status :	Answered																
Chosen Option :	3																
Q.4 7	The distance a cam lobe rises away from the base circle of the camshaft is known as:																
Ans	<ul style="list-style-type: none"> <li><input type="checkbox"/> 1. rocker arm lift</li> <li><input checked="" type="checkbox"/> 2. lobe lift</li> <li><input type="checkbox"/> 3. mushroom valve lift</li> <li><input type="checkbox"/> 4. gross lift</li> </ul>																
<table border="1" style="margin-left: auto; margin-right: 0;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155029</td></tr> <tr><td>Option 1 ID :</td><td>441009615264</td></tr> <tr><td>Option 2 ID :</td><td>441009615263</td></tr> <tr><td>Option 3 ID :</td><td>441009615265</td></tr> <tr><td>Option 4 ID :</td><td>441009615262</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155029	Option 1 ID :	441009615264	Option 2 ID :	441009615263	Option 3 ID :	441009615265	Option 4 ID :	441009615262	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																
Question ID :	441009155029																
Option 1 ID :	441009615264																
Option 2 ID :	441009615263																
Option 3 ID :	441009615265																
Option 4 ID :	441009615262																
Status :	Answered																
Chosen Option :	2																
Q.4 8	What is the chemical effect that occurs in a battery during the charging process of a Lead Acid battery?																
Ans	<ul style="list-style-type: none"> <li><input type="checkbox"/> 1. Water dissociation into hydrogen and oxygen</li> <li><input checked="" type="checkbox"/> 2. Lead sulphate decomposes into lead and sulphuric acid</li> <li><input type="checkbox"/> 3. Sulphuric acid dissociates into hydrogen and sulphate ions</li> <li><input type="checkbox"/> 4. Lead reacts with sulphur to form lead sulphate</li> </ul>																
<table border="1" style="margin-left: auto; margin-right: 0;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156526</td></tr> <tr><td>Option 1 ID :</td><td>441009621267</td></tr> <tr><td>Option 2 ID :</td><td>441009621268</td></tr> <tr><td>Option 3 ID :</td><td>441009621269</td></tr> <tr><td>Option 4 ID :</td><td>441009621270</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156526	Option 1 ID :	441009621267	Option 2 ID :	441009621268	Option 3 ID :	441009621269	Option 4 ID :	441009621270	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																
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Option 3 ID :	441009621269																
Option 4 ID :	441009621270																
Status :	Not Answered																
Chosen Option :	--																

<b>Q.4</b>	A constant mesh gearbox usually comes with how many manual transmission configurations?
<b>9</b>	
<b>Ans</b>	<input type="checkbox"/> 1. It comes with a 6-speed 1-reverse manual transmission configuration.
	<input type="checkbox"/> 2. It comes with a 3-speed 1-reverse manual transmission configuration.
	<input type="checkbox"/> 3. It comes with a 5-speed 1-reverse manual transmission configuration.
	<input checked="" type="checkbox"/> 4. It comes with a 4-speed 1-reverse manual transmission configuration.

Question Type :	MCQ
Question ID :	441009155004
Option 1 ID :	441009615162
Option 2 ID :	441009615165
Option 3 ID :	441009615163
Option 4 ID :	441009615164
Status :	Answered
Chosen Option :	2

<b>Q.5</b>	What conditions lead to the formation of oxides of nitrogen during combustion in the exhaust gases of an IC engine?
<b>0</b>	
<b>Ans</b>	<input type="checkbox"/> 1. High temperature and low pressure
	<input type="checkbox"/> 2. Low temperature and low pressure
	<input type="checkbox"/> 3. Low temperature and high pressure
	<input checked="" type="checkbox"/> 4. High temperature and high pressure

Question Type :	MCQ
Question ID :	441009155296
Option 1 ID :	441009616330
Option 2 ID :	441009616333
Option 3 ID :	441009616331
Option 4 ID :	441009616332
Status :	Answered
Chosen Option :	4

<b>Q.5</b>	Which of the following types of engines has irregular operation that occurs because the amount of fresh mixture entering the cylinder is not enough to clear all the exhaust gases and a part of it remains in the cylinder to contaminate the charge?
<b>1</b>	
<b>Ans</b>	<input type="checkbox"/> 1. Two-stroke diesel engine
	<input checked="" type="checkbox"/> 2. Two-stroke petrol engine
	<input type="checkbox"/> 3. Four-stroke diesel cycle
	<input type="checkbox"/> 4. Four-stroke petrol engine

Question Type :	MCQ
Question ID :	441009155091
Option 1 ID :	441009615510
Option 2 ID :	441009615511
Option 3 ID :	441009615513
Option 4 ID :	441009615512
Status :	Answered
Chosen Option :	2

<b>Q.5</b>	<b>Which of the following is a key advantage of using Thyristors in power control applications?</b>
<b>2</b>	
<b>Ans</b>	<input type="checkbox"/> 1. High efficiency and low power loss
	<input type="checkbox"/> 2. Low voltage handling capabilities
	<input checked="" type="checkbox"/> 3. High frequency switching
	<input type="checkbox"/> 4. Small size and low cost

Question Type :	<b>MCQ</b>
Question ID :	<b>441009156519</b>
Option 1 ID :	<b>441009621240</b>
Option 2 ID :	<b>441009621241</b>
Option 3 ID :	<b>441009621239</b>
Option 4 ID :	<b>441009621242</b>
Status :	<b>Not Answered</b>
Chosen Option :	<b>--</b>

<b>Q.5</b>	<b>Why are metal dispersants or detergents used as additives in lubrication oil?</b>
<b>3</b>	
<b>Ans</b>	<input type="checkbox"/> 1. These are used to control viscosity index and wax formation throughout the system at high temperature
	<input checked="" type="checkbox"/> 2. These are used to control deposit formation throughout the system
	<input type="checkbox"/> 3. These are used to control the formation of sedimentation of particles throughout the system
	<input type="checkbox"/> 4. These are used to control bubbles formation and mist throughout the system

Question Type :	<b>MCQ</b>
Question ID :	<b>441009155023</b>
Option 1 ID :	<b>441009615240</b>
Option 2 ID :	<b>441009615239</b>
Option 3 ID :	<b>441009615238</b>
Option 4 ID :	<b>441009615241</b>
Status :	<b>Answered</b>
Chosen Option :	<b>3</b>

<b>Q.5</b>	<b>Which of the following statements is NOT correct about the steering system in vehicles?</b>
<b>4</b>	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. It should minimise the turning effort applied on the steering wheel by the driver by use of overdamped damper.
	<input type="checkbox"/> 2. It should multiply the turning effort applied on the steering wheel by the driver.
	<input type="checkbox"/> 3. It should not transmit the shocks of the road surface encountered by wheels to the driver hands.
	<input type="checkbox"/> 4. The function of the steering system is to convert the rotary movement of the steering wheel into the angular turn of the front wheels.

Question Type :	<b>MCQ</b>
Question ID :	<b>441009154998</b>
Option 1 ID :	<b>441009615140</b>
Option 2 ID :	<b>441009615139</b>
Option 3 ID :	<b>441009615141</b>
Option 4 ID :	<b>441009615138</b>
Status :	<b>Answered</b>
Chosen Option :	<b>3</b>

<b>Q.5</b> 5	How does the EGR valve help control NOx formation and engine knock?																
<b>Ans</b>	✗ 1. By limiting the exhaust flow ✓ 2. By adding exhaust gas to the intake mixture ✗ 3. By raising the intake air temperature ✗ 4. By improving the fuel injection timing																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155332</td></tr> <tr><td>Option 1 ID :</td><td>441009616477</td></tr> <tr><td>Option 2 ID :</td><td>441009616474</td></tr> <tr><td>Option 3 ID :</td><td>441009616476</td></tr> <tr><td>Option 4 ID :</td><td>441009616475</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155332	Option 1 ID :	441009616477	Option 2 ID :	441009616474	Option 3 ID :	441009616476	Option 4 ID :	441009616475	Status :	Answered	Chosen Option :	2
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Option 2 ID :	441009616474																
Option 3 ID :	441009616476																
Option 4 ID :	441009616475																
Status :	Answered																
Chosen Option :	2																
<b>Q.5</b> 6	What should be done if the starter motor pinion gear teeth are worn out?																
<b>Ans</b>	✗ 1. Repair the pinion. ✗ 2. Tighten the starter motor mounting. ✗ 3. Clean the plunger contact point ✓ 4. Replace the pinion.																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155321</td></tr> <tr><td>Option 1 ID :</td><td>441009616432</td></tr> <tr><td>Option 2 ID :</td><td>441009616431</td></tr> <tr><td>Option 3 ID :</td><td>441009616433</td></tr> <tr><td>Option 4 ID :</td><td>441009616430</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155321	Option 1 ID :	441009616432	Option 2 ID :	441009616431	Option 3 ID :	441009616433	Option 4 ID :	441009616430	Status :	Answered	Chosen Option :	4
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Option 3 ID :	441009616433																
Option 4 ID :	441009616430																
Status :	Answered																
Chosen Option :	4																
<b>Q.5</b> 7	In engineering drawing, what is defined as the path of a moving point with no thickness?																
<b>Ans</b>	✗ 1. Point ✓ 2. Line ✗ 3. Curve ✗ 4. Angle																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156577</td></tr> <tr><td>Option 1 ID :</td><td>441009621472</td></tr> <tr><td>Option 2 ID :</td><td>441009621471</td></tr> <tr><td>Option 3 ID :</td><td>441009621473</td></tr> <tr><td>Option 4 ID :</td><td>441009621474</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156577	Option 1 ID :	441009621472	Option 2 ID :	441009621471	Option 3 ID :	441009621473	Option 4 ID :	441009621474	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																
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Option 2 ID :	441009621471																
Option 3 ID :	441009621473																
Option 4 ID :	441009621474																
Status :	Answered																
Chosen Option :	2																

<p><b>Q.5</b> 8</p>	<p>Which of the following types of wooden mallets are used for hollowing panel beatings?</p>																
<p><b>Ans</b></p>	<p>✓ 1. Bossing mallets</p> <p>✗ 2. End-faked mallets</p> <p>✗ 3. Standard wooden mallets</p> <p>✗ 4. Side-faked mallets</p>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156635</td></tr> <tr><td>Option 1 ID :</td><td>441009621704</td></tr> <tr><td>Option 2 ID :</td><td>441009621705</td></tr> <tr><td>Option 3 ID :</td><td>441009621703</td></tr> <tr><td>Option 4 ID :</td><td>441009621706</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156635	Option 1 ID :	441009621704	Option 2 ID :	441009621705	Option 3 ID :	441009621703	Option 4 ID :	441009621706	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																
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Option 2 ID :	441009621705																
Option 3 ID :	441009621703																
Option 4 ID :	441009621706																
Status :	Not Answered																
Chosen Option :	--																
<p><b>Q.5</b> 9</p>	<p>What is waste?</p>																
<p><b>Ans</b></p>	<p>✓ 1. Unwanted or unusable materials</p> <p>✗ 2. Natural resources for living organisms</p> <p>✗ 3. Useful materials for industries</p> <p>✗ 4. Valuable substances for agriculture</p>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009161823</td></tr> <tr><td>Option 1 ID :</td><td>441009640947</td></tr> <tr><td>Option 2 ID :</td><td>441009640948</td></tr> <tr><td>Option 3 ID :</td><td>441009640945</td></tr> <tr><td>Option 4 ID :</td><td>441009640946</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009161823	Option 1 ID :	441009640947	Option 2 ID :	441009640948	Option 3 ID :	441009640945	Option 4 ID :	441009640946	Status :	Answered	Chosen Option :	1
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Option 3 ID :	441009640945																
Option 4 ID :	441009640946																
Status :	Answered																
Chosen Option :	1																
<p><b>Q.6</b> 0</p>	<p>Pencils are rated in engineering drawings based on the _____.</p>																
<p><b>Ans</b></p>	<p>✓ 1. hardness or softness of the lead</p> <p>✗ 2. colour of the lead</p> <p>✗ 3. shape of the lead</p> <p>✗ 4. durability of the lead</p>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156550</td></tr> <tr><td>Option 1 ID :</td><td>441009621366</td></tr> <tr><td>Option 2 ID :</td><td>441009621365</td></tr> <tr><td>Option 3 ID :</td><td>441009621363</td></tr> <tr><td>Option 4 ID :</td><td>441009621364</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156550	Option 1 ID :	441009621366	Option 2 ID :	441009621365	Option 3 ID :	441009621363	Option 4 ID :	441009621364	Status :	Answered	Chosen Option :	1
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Option 2 ID :	441009621365																
Option 3 ID :	441009621363																
Option 4 ID :	441009621364																
Status :	Answered																
Chosen Option :	1																

Q.6	औद्योगिक अपशिष्ट के लिए उचित निपटान प्रक्रियाओं का पालन करना क्यों महत्वपूर्ण है?																
1																	
Ans	<input checked="" type="checkbox"/> 1. अपशिष्ट को कहीं भी विघटित होने देने के लिए <input checked="" type="checkbox"/> 2. कचरे के वर्गीकरण में लगने वाले समय और आयास को बचाने के लिए <input checked="" type="checkbox"/> 3. आवश्यक कचरा डिब्बों की संख्या को कम करने के लिए <input checked="" type="checkbox"/> 4. पर्यावरण नियमों का पालन करने के लिए तथा प्रदूषण को कम करने के लिए																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156582</td></tr> <tr><td>Option 1 ID :</td><td>441009621494</td></tr> <tr><td>Option 2 ID :</td><td>441009621491</td></tr> <tr><td>Option 3 ID :</td><td>441009621493</td></tr> <tr><td>Option 4 ID :</td><td>441009621492</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156582	Option 1 ID :	441009621494	Option 2 ID :	441009621491	Option 3 ID :	441009621493	Option 4 ID :	441009621492	Status :	Answered	Chosen Option :	4
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Option 1 ID :	441009621494																
Option 2 ID :	441009621491																
Option 3 ID :	441009621493																
Option 4 ID :	441009621492																
Status :	Answered																
Chosen Option :	4																
Q.6	How is the alternating current (AC) converted to direct current (DC) in an alternator?																
2																	
Ans	<input checked="" type="checkbox"/> 1. Using a transformer <input checked="" type="checkbox"/> 2. Using a capacitor <input checked="" type="checkbox"/> 3. Using silicon diodes <input checked="" type="checkbox"/> 4. Using an inverter																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155290</td></tr> <tr><td>Option 1 ID :</td><td>441009616306</td></tr> <tr><td>Option 2 ID :</td><td>441009616309</td></tr> <tr><td>Option 3 ID :</td><td>441009616308</td></tr> <tr><td>Option 4 ID :</td><td>441009616307</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155290	Option 1 ID :	441009616306	Option 2 ID :	441009616309	Option 3 ID :	441009616308	Option 4 ID :	441009616307	Status :	Answered	Chosen Option :	4
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Option 2 ID :	441009616309																
Option 3 ID :	441009616308																
Option 4 ID :	441009616307																
Status :	Answered																
Chosen Option :	4																
Q.6	What is the blade length of the T1 'T' square, as per IS:1360-1989?																
3																	
Ans	<input checked="" type="checkbox"/> 1. 700 mm <input checked="" type="checkbox"/> 2. 500 mm <input checked="" type="checkbox"/> 3. 1500 mm <input checked="" type="checkbox"/> 4. 1000 mm																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156579</td></tr> <tr><td>Option 1 ID :</td><td>441009621481</td></tr> <tr><td>Option 2 ID :</td><td>441009621482</td></tr> <tr><td>Option 3 ID :</td><td>441009621479</td></tr> <tr><td>Option 4 ID :</td><td>441009621480</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>4</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156579	Option 1 ID :	441009621481	Option 2 ID :	441009621482	Option 3 ID :	441009621479	Option 4 ID :	441009621480	Status :	Answered	Chosen Option :	4
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Option 3 ID :	441009621479																
Option 4 ID :	441009621480																
Status :	Answered																
Chosen Option :	4																

Q.6	Which of the following is NOT a correct statement about the torsion spring?																
4																	
Ans	<p><input checked="" type="checkbox"/> 1. This spring provides very neat and compact design.</p> <p><input checked="" type="checkbox"/> 2. It takes the driving or braking torque, and additional link mechanisms are not required for this purpose.</p> <p><input checked="" type="checkbox"/> 3. It is lighter than leaf spring system.</p> <p><input checked="" type="checkbox"/> 4. This spring needs less space.</p>																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155016</td></tr> <tr><td>Option 1 ID :</td><td>441009615212</td></tr> <tr><td>Option 2 ID :</td><td>441009615213</td></tr> <tr><td>Option 3 ID :</td><td>441009615211</td></tr> <tr><td>Option 4 ID :</td><td>441009615210</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155016	Option 1 ID :	441009615212	Option 2 ID :	441009615213	Option 3 ID :	441009615211	Option 4 ID :	441009615210	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																
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Option 1 ID :	441009615212																
Option 2 ID :	441009615213																
Option 3 ID :	441009615211																
Option 4 ID :	441009615210																
Status :	Not Answered																
Chosen Option :	--																
Q.6	What happens when the brake pedal is pressed in a pedal-assisted type brake?																
5																	
Ans	<p><input checked="" type="checkbox"/> 1. The power cylinder is activated.</p> <p><input checked="" type="checkbox"/> 2. The engine shuts down.</p> <p><input checked="" type="checkbox"/> 3. The accelerator is engaged.</p> <p><input checked="" type="checkbox"/> 4. The clutch is released.</p>																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155090</td></tr> <tr><td>Option 1 ID :</td><td>441009615506</td></tr> <tr><td>Option 2 ID :</td><td>441009615507</td></tr> <tr><td>Option 3 ID :</td><td>441009615508</td></tr> <tr><td>Option 4 ID :</td><td>441009615509</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>		Question Type :	MCQ	Question ID :	441009155090	Option 1 ID :	441009615506	Option 2 ID :	441009615507	Option 3 ID :	441009615508	Option 4 ID :	441009615509	Status :	Answered	Chosen Option :	1
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Option 4 ID :	441009615509																
Status :	Answered																
Chosen Option :	1																
Q.6	Which of the following is the key difference between a fuse and a circuit breaker?																
6																	
Ans	<p><input checked="" type="checkbox"/> 1. A fuse is used for high-voltage circuits, while a circuit breaker is used for low-voltage circuits.</p> <p><input checked="" type="checkbox"/> 2. A fuse is a one-time-use device, while a circuit breaker can be reset and reused.</p> <p><input checked="" type="checkbox"/> 3. A fuse can be reset after tripping, while a circuit breaker must be replaced.</p> <p><input checked="" type="checkbox"/> 4. A fuse is a mechanical device, while a circuit breaker is an electronic device.</p>																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156529</td></tr> <tr><td>Option 1 ID :</td><td>441009621281</td></tr> <tr><td>Option 2 ID :</td><td>441009621282</td></tr> <tr><td>Option 3 ID :</td><td>441009621279</td></tr> <tr><td>Option 4 ID :</td><td>441009621280</td></tr> <tr><td>Status :</td><td>Answered</td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	MCQ	Question ID :	441009156529	Option 1 ID :	441009621281	Option 2 ID :	441009621282	Option 3 ID :	441009621279	Option 4 ID :	441009621280	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																
Question ID :	441009156529																
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Option 2 ID :	441009621282																
Option 3 ID :	441009621279																
Option 4 ID :	441009621280																
Status :	Answered																
Chosen Option :	2																

**Q.6** What force (effort) will be required to push a load, initially at rest, of mass 500 g, so that at a distance of 20 m, its final velocity is 20 m/sec [Assume that there is no friction and 'g' = 10 m/s<sup>2</sup>].

- Ans**
- 1. 10 N
  - 2. 5 N
  - 3. 10 J
  - 4. 5 J

Question Type : **MCQ**

Question ID : 441009156652

Option 1 ID : 441009621772

Option 2 ID : 441009621771

Option 3 ID : 441009621774

Option 4 ID : 441009621773

Status : **Answered**

Chosen Option : 2

**Q.6** What is the role of baffles in the fuel tank?

- Ans**
- 1. To store more fuel
  - 2. To minimise fuel slushing
  - 3. To filter impurities
  - 4. To indicate fuel level

Question Type : **MCQ**

Question ID : 441009155306

Option 1 ID : 441009616371

Option 2 ID : 441009616373

Option 3 ID : 441009616370

Option 4 ID : 441009616372

Status : **Answered**

Chosen Option : 2

**Q.6** \_\_\_\_\_ brakes are a type of brake in which the fluid from the master cylinder is forced into a caliper where it presses against a piston. The piston in turn squeezes two brake pads against the disc (rotor), which is attached to wheel, forcing it to slow down or stop.

- Ans**
- 1. Electrical
  - 2. Vacuum
  - 3. Drum
  - 4. Disk

Question Type : **MCQ**

Question ID : 441009154994

Option 1 ID : 441009615122

Option 2 ID : 441009615123

Option 3 ID : 441009615125

Option 4 ID : 441009615124

Status : **Answered**

Chosen Option : 4

Q.7 0	If the coefficient of linear expansion of a material is $2 \times 10^{-5} \text{ } ^\circ\text{C}^{-1}$ , what does it mean?
Ans	<p><input checked="" type="checkbox"/> 1. The material expands by <math>2 \times 10^{-5}</math> times its original volume per degree Celsius</p> <p><input checked="" type="checkbox"/> 2. The material expands by <math>2 \times 10^{-5}</math> times its original length per degree Celsius</p> <p><input checked="" type="checkbox"/> 3. The material always increases by <math>2 \times 10^{-5}</math> kg when temperature is increased by <math>1^\circ\text{C}</math></p> <p><input checked="" type="checkbox"/> 4. The material expands by <math>2 \times 10^{-5}</math> times its original area per degree Celsius</p>

Question Type :	MCQ
Question ID :	441009156646
Option 1 ID :	441009621750
Option 2 ID :	441009621748
Option 3 ID :	441009621747
Option 4 ID :	441009621749
Status :	Answered
Chosen Option :	2

Q.7 1	Which of the following statements correctly describes the placement and purpose of orientation marks on a drawing sheet?
	<p>1. Orientation marks are placed at two opposite corners of the drawing sheet to indicate the correct orientation on the drawing board.</p> <p>2. Orientation marks consist of arrow heads placed across the frame, with one at the shorter side and one at the longer side, coinciding with the centering marks.</p> <p>3. One of the orientation marks always points towards the draughtsman, indicating the direction in which the drawing sheet should be placed.</p> <p>4. Orientation marks are used to mark the midpoint of each side of the drawing sheet for accurate centering.</p>
Ans	<p><input checked="" type="checkbox"/> 1. 1 and 4 only</p> <p><input checked="" type="checkbox"/> 2. 2 and 3 only</p> <p><input checked="" type="checkbox"/> 3. 1, 2, and 4 only</p> <p><input checked="" type="checkbox"/> 4. 1, 2, and 3 only</p>

Question Type :	MCQ
Question ID :	441009156562
Option 1 ID :	441009621411
Option 2 ID :	441009621412
Option 3 ID :	441009621413
Option 4 ID :	441009621414
Status :	Not Answered
Chosen Option :	--

Q.7 2	What do the SAE viscosity rating numbers denote, such as 0W or 5W?																			
Ans	<input checked="" type="checkbox"/> 1. Denotes thicker oil that better resists viscosity breakdown when hot <input checked="" type="checkbox"/> 2. Easier oil flow for cold starting <input checked="" type="checkbox"/> 3. Denotes thicker oil that better resists viscosity breakdown when cold <input checked="" type="checkbox"/> 4. High viscosity oil and difficult flow for cold starting																			
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155026</td></tr> <tr><td>Option 1 ID :</td><td>441009615252</td></tr> <tr><td>Option 2 ID :</td><td>441009615250</td></tr> <tr><td>Option 3 ID :</td><td>441009615253</td></tr> <tr><td>Option 4 ID :</td><td>441009615251</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>					Question Type :	MCQ	Question ID :	441009155026	Option 1 ID :	441009615252	Option 2 ID :	441009615250	Option 3 ID :	441009615253	Option 4 ID :	441009615251	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																			
Question ID :	441009155026																			
Option 1 ID :	441009615252																			
Option 2 ID :	441009615250																			
Option 3 ID :	441009615253																			
Option 4 ID :	441009615251																			
Status :	Not Answered																			
Chosen Option :	--																			
Q.7 3	Which of the following punches is used to make deeper witness marks on scribed lines and make it easier for the drill to start correctly?																			
Ans	<input checked="" type="checkbox"/> 1. Pin punch <input checked="" type="checkbox"/> 2. Prick punch <input checked="" type="checkbox"/> 3. Centre punch <input checked="" type="checkbox"/> 4. Solid punch																			
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156630</td></tr> <tr><td>Option 1 ID :</td><td>441009621686</td></tr> <tr><td>Option 2 ID :</td><td>441009621683</td></tr> <tr><td>Option 3 ID :</td><td>441009621684</td></tr> <tr><td>Option 4 ID :</td><td>441009621685</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>					Question Type :	MCQ	Question ID :	441009156630	Option 1 ID :	441009621686	Option 2 ID :	441009621683	Option 3 ID :	441009621684	Option 4 ID :	441009621685	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																			
Question ID :	441009156630																			
Option 1 ID :	441009621686																			
Option 2 ID :	441009621683																			
Option 3 ID :	441009621684																			
Option 4 ID :	441009621685																			
Status :	Not Answered																			
Chosen Option :	--																			
Q.7 4	What component in an adjustable flow control (throttle) valve controls the flow?																			
Ans	<input checked="" type="checkbox"/> 1. Ball poppet <input checked="" type="checkbox"/> 2. Check valve <input checked="" type="checkbox"/> 3. Needle-shaped plunger <input checked="" type="checkbox"/> 4. Spring-loaded piston																			
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155308</td></tr> <tr><td>Option 1 ID :</td><td>441009616378</td></tr> <tr><td>Option 2 ID :</td><td>441009616381</td></tr> <tr><td>Option 3 ID :</td><td>441009616379</td></tr> <tr><td>Option 4 ID :</td><td>441009616380</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </table>					Question Type :	MCQ	Question ID :	441009155308	Option 1 ID :	441009616378	Option 2 ID :	441009616381	Option 3 ID :	441009616379	Option 4 ID :	441009616380	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																			
Question ID :	441009155308																			
Option 1 ID :	441009616378																			
Option 2 ID :	441009616381																			
Option 3 ID :	441009616379																			
Option 4 ID :	441009616380																			
Status :	Not Answered																			
Chosen Option :	--																			

Q.7	Which of the following parts of a hammer-head is used for shaping and forming work like riveting and bending?
5	
Ans	<input type="checkbox"/> 1. Eyehole
	<input type="checkbox"/> 2. Cheek
	<input checked="" type="checkbox"/> 3. Pein
	<input type="checkbox"/> 4. Face

Question Type :	MCQ
Question ID :	441009156641
Option 1 ID :	441009621730
Option 2 ID :	441009621729
Option 3 ID :	441009621728
Option 4 ID :	441009621727
Status :	Answered
Chosen Option :	4

