

**RRB ALP  
CBT-II**

**Previous Year Paper  
(Electronic Mechanic)  
06 May, 2025 Shift 1**

**Adda247**

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# Test Prime

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Roll Number	
Candidate Name	
Test Center Name	
Community	
Test Date	06/05/2025
Test Time	9:30 AM - 12:00 PM
Subject	Electronic Mechanic
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

**Q.1** In this question, a statement is given followed by two courses of action, numbered I and II. You must assume everything in the statement to be true, and on the basis of the information given in the statement, decide which of the given courses of action logically follow(s) for pursuing.

**Statement:**  
 A major fire broke out this afternoon in a mall in Jaipur, causing several casualties amongst the people present inside.

**Courses of Action:**  
 The police must check to see if the fire safety regulations were followed by the mall.  
 Traffic police must divert traffic away from the fire site, to enable evacuation of people.

**Ans**

- 1. Only II follows.
- 2. Neither I nor II follows.
- 3. Both I and II follow.
- 4. Only I follows.

Question Type :	MCQ
Question ID :	441009155684
Option 1 ID :	441009617904
Option 2 ID :	441009617905
Option 3 ID :	441009617906
Option 4 ID :	441009617903
Status :	Answered
Chosen Option :	3

**Q.2** The taxi charges in a city consist of a fixed charge together with the charge per kilometre for the distance covered. For a distance of 35 km, the charge paid is ₹375 and for a distance of 48 km, the charge paid is ₹427. Find the fixed charges and the charge per km (in ₹), respectively.

**Ans**

- 1. 220 and 6
- 2. 227 and 5
- 3. 235 and 4
- 4. 275 and 3

Question Type :	MCQ
Question ID :	441009153584
Option 1 ID :	441009609506
Option 2 ID :	441009609507
Option 3 ID :	441009609508
Option 4 ID :	441009609509
Status :	Answered
Chosen Option :	3

Q.3 Which technology operates through an electrochemical process that transforms the energy stored in hydrogen gas (H<sub>2</sub>) and oxygen into electrical power without combustion?

- Ans
- 1. Hydroelectric power
  - 2. Solar thermal power
  - 3. Hydrogen fuel cells
  - 4. Wind power

Question Type : MCQ

Question ID : 441009158535

Option 1 ID : 441009629075

Option 2 ID : 441009629078

Option 3 ID : 441009629077

Option 4 ID : 441009629076

Status : Answered

Chosen Option : 3

Q.4 Seema is twice as old as Alka. If nine years is subtracted from Alka's age and six years is added to Seema's age, then Seema will be four times Alka's age. How old was Alka three years ago?

- Ans
- 1. 18 years
  - 2. 21 years
  - 3. 16 years
  - 4. 20 years

Question Type : MCQ

Question ID : 441009153587

Option 1 ID : 441009609520

Option 2 ID : 441009609518

Option 3 ID : 441009609521

Option 4 ID : 441009609519

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 ships are boats.  
All boats are submarines.  
Some submarines are yachts

**Conclusions:**

(I) Some yachts are boats.  
(II) Some yachts are ships.

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

Question Type :	MCQ
Question ID :	441009155654
Option 1 ID :	441009617783
Option 2 ID :	441009617786
Option 3 ID :	441009617784
Option 4 ID :	441009617785
Status :	Answered
Chosen Option :	4

**Q.6** Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons. In row 1 – A, B, C and D are seated and all of them are facing south. In row 2 – P, Q, R and S are seated and all of them are facing north. Thus each person faces another person from the other row. Only three people sit to the right of R. D faces the person who is the immediate neighbour of S and P. C faces the person who sits second to the left of S. R does not face A.

Who amongst the following faces B?

- Ans**
- 1. R
  - 2. S
  - 3. P
  - 4. Q

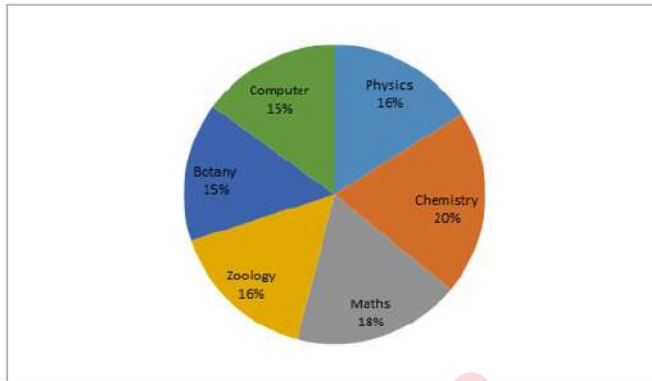
Question Type :	MCQ
Question ID :	441009155639
Option 1 ID :	441009617724
Option 2 ID :	441009617725
Option 3 ID :	441009617723
Option 4 ID :	441009617726
Status :	Answered
Chosen Option :	1

<b>Q.7</b>	In Engineering Drawing, which of the following is the correct definition of the term 'dimension'.																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. The thickness of the line of a letter <input checked="" type="checkbox"/> 2. A continuous thick or wide line along which the prints are trimmed <input checked="" type="checkbox"/> 3. A line that is drawn to make a section evident <input checked="" type="checkbox"/> 4. A numerical value expressed in an appropriate unit of measurement																
<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>441009156548</td></tr> <tr><td>Option 1 ID :</td><td>441009621356</td></tr> <tr><td>Option 2 ID :</td><td>441009621357</td></tr> <tr><td>Option 3 ID :</td><td>441009621358</td></tr> <tr><td>Option 4 ID :</td><td>441009621355</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 :	441009156548	Option 1 ID :	441009621356	Option 2 ID :	441009621357	Option 3 ID :	441009621358	Option 4 ID :	441009621355	Status :	<b>Answered</b>	Chosen Option :	4
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Option 1 ID :	441009621356																
Option 2 ID :	441009621357																
Option 3 ID :	441009621358																
Option 4 ID :	441009621355																
Status :	<b>Answered</b>																
Chosen Option :	4																
<b>Q.8</b>	In a certain code language, 'LOVE' is coded as '8364' and 'EARS' is coded as '3517'. What is the code for 'E' in the given code language?																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. 7 <input checked="" type="checkbox"/> 2. 5 <input checked="" type="checkbox"/> 3. 3 <input checked="" type="checkbox"/> 4. 4																
<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>441009155628</td></tr> <tr><td>Option 1 ID :</td><td>441009617682</td></tr> <tr><td>Option 2 ID :</td><td>441009617681</td></tr> <tr><td>Option 3 ID :</td><td>441009617679</td></tr> <tr><td>Option 4 ID :</td><td>441009617680</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 :	441009155628	Option 1 ID :	441009617682	Option 2 ID :	441009617681	Option 3 ID :	441009617679	Option 4 ID :	441009617680	Status :	<b>Answered</b>	Chosen Option :	3
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Option 3 ID :	441009617679																
Option 4 ID :	441009617680																
Status :	<b>Answered</b>																
Chosen Option :	3																



**Q.9** Study the given pie chart and answer the question that follows.

The given pie chart indicates the percentage-wise breakup of students in different subjects. The total number of students in the college is 5000.



What is the ratio of the students studying Zoology to the students studying Botany?

- Ans
- 1. 15 : 14
  - 2. 15 : 16
  - 3. 14 : 15
  - 4. 16 : 15

Question Type :	MCQ
Question ID :	441009155611
Option 1 ID :	441009617614
Option 2 ID :	441009617612
Option 3 ID :	441009617613
Option 4 ID :	441009617611
Status :	Answered
Chosen Option :	4

**Q.1** Which of the following steps is essential when configuring a web browser to enhance both security and privacy for a user?

- Ans
- 1. Enabling pop-ups for all websites to improve user experience
  - 2. Setting the homepage to a frequently visited website for quick access
  - 3. Configuring the browser to block third-party cookies and enabling HTTPS-only mode
  - 4. Disabling the browser's cache to improve website loading times

Question Type :	MCQ
Question ID :	441009156671
Option 1 ID :	441009621847
Option 2 ID :	441009621850
Option 3 ID :	441009621849
Option 4 ID :	441009621848
Status :	Not Answered
Chosen Option :	--

<p><b>Q.1</b> 1</p>	<p>Which of the following benefits can be obtained by conducting an energy audit in a commercial building?</p> <p><b>Ans</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 1. Increasing the cost of energy bills</li> <li><input checked="" type="checkbox"/> 2. Identification of opportunities for energy savings</li> <li><input checked="" type="checkbox"/> 3. Reduction in price of energy per its unit usage</li> <li><input checked="" type="checkbox"/> 4. Reduced market value of building</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009158536</td></tr> <tr><td>Option 1 ID :</td><td>441009629081</td></tr> <tr><td>Option 2 ID :</td><td>441009629080</td></tr> <tr><td>Option 3 ID :</td><td>441009629082</td></tr> <tr><td>Option 4 ID :</td><td>441009629079</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 :	441009158536	Option 1 ID :	441009629081	Option 2 ID :	441009629080	Option 3 ID :	441009629082	Option 4 ID :	441009629079	Status :	Answered	Chosen Option :	3
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Question ID :	441009158536																	
Option 1 ID :	441009629081																	
Option 2 ID :	441009629080																	
Option 3 ID :	441009629082																	
Option 4 ID :	441009629079																	
Status :	Answered																	
Chosen Option :	3																	
<p><b>Q.1</b> 2</p>	<p>What should come in place of the question mark (?) in the given series? 17 29 41 59 77 101 125 ?</p> <p><b>Ans</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 1. 175</li> <li><input checked="" type="checkbox"/> 2. 161</li> <li><input checked="" type="checkbox"/> 3. 155</li> <li><input checked="" type="checkbox"/> 4. 149</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155606</td></tr> <tr><td>Option 1 ID :</td><td>441009617594</td></tr> <tr><td>Option 2 ID :</td><td>441009617593</td></tr> <tr><td>Option 3 ID :</td><td>441009617591</td></tr> <tr><td>Option 4 ID :</td><td>441009617592</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 :	441009155606	Option 1 ID :	441009617594	Option 2 ID :	441009617593	Option 3 ID :	441009617591	Option 4 ID :	441009617592	Status :	Answered	Chosen Option :	3
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Option 2 ID :	441009617593																	
Option 3 ID :	441009617591																	
Option 4 ID :	441009617592																	
Status :	Answered																	
Chosen Option :	3																	
<p><b>Q.1</b> 3</p>	<p>Which of the following options is correct when two objects at the same temperature are kept in contact with each other?</p> <p><b>Ans</b></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> 1. Both objects transfer heat to each other.</li> <li><input checked="" type="checkbox"/> 2. Heat is transferred from object 2 to object 1.</li> <li><input checked="" type="checkbox"/> 3. No heat is transferred.</li> <li><input checked="" type="checkbox"/> 4. Heat is transferred from object 1 to object 2.</li> </ul>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154526</td></tr> <tr><td>Option 1 ID :</td><td>441009613269</td></tr> <tr><td>Option 2 ID :</td><td>441009613267</td></tr> <tr><td>Option 3 ID :</td><td>441009613268</td></tr> <tr><td>Option 4 ID :</td><td>441009613266</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 :	441009154526	Option 1 ID :	441009613269	Option 2 ID :	441009613267	Option 3 ID :	441009613268	Option 4 ID :	441009613266	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																	
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Option 1 ID :	441009613269																	
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Option 3 ID :	441009613268																	
Option 4 ID :	441009613266																	
Status :	Answered																	
Chosen Option :	3																	

Q.1 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '+' are interchanged?

$$32 + 28 \div 3 \times 4 - 15 = ?$$

Ans  1. 32

2. 26

3. 29

4. 20

Question Type : MCQ

Question ID : 441009155590

Option 1 ID : 441009617529

Option 2 ID : 441009617527

Option 3 ID : 441009617530

Option 4 ID : 441009617528

Status : Answered

Chosen Option : 2

Q.1 Mangal starts from Point A and walks 14 m towards north. He takes a right turn, walks 9 m and then takes a right turn, walks 37 m, reaches Point B and stops. Jayanti starts from Point Z which is 15 m towards the east of Point B. She walks 11 m towards east, takes a left turn, walks 42 m, turns left and walks 63 m, turns left and walks 19 m and stops at Point Y. What is the shortest distance between Point A and Point Y? (All turns are 90 degree turns only.)

Ans  1. 25 m

2. 28 m

3. 26 m

4. 31 m

Question Type : MCQ

Question ID : 441009155634

Option 1 ID : 441009617704

Option 2 ID : 441009617703

Option 3 ID : 441009617705

Option 4 ID : 441009617706

Status : Answered

Chosen Option : 2

Q.1 6	What is the amount of work done in moving a charge of 6 C from a point with a potential of 120 V to a point with a potential of 140 V?																	
Ans	<input checked="" type="checkbox"/> 1. 840 J <input checked="" type="checkbox"/> 2. 120 J <input checked="" type="checkbox"/> 3. 720 J <input checked="" type="checkbox"/> 4. 3.33 J																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153508</td></tr> <tr><td>Option 1 ID :</td><td>441009609204</td></tr> <tr><td>Option 2 ID :</td><td>441009609202</td></tr> <tr><td>Option 3 ID :</td><td>441009609205</td></tr> <tr><td>Option 4 ID :</td><td>441009609203</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 :	441009153508	Option 1 ID :	441009609204	Option 2 ID :	441009609202	Option 3 ID :	441009609205	Option 4 ID :	441009609203	Status :	Not Answered	Chosen Option :	--
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Option 2 ID :	441009609202																	
Option 3 ID :	441009609205																	
Option 4 ID :	441009609203																	
Status :	Not Answered																	
Chosen Option :	--																	
Q.1 7	In a clearance sale of electronic items, an item whose marked price was ₹12,225 is now sold for ₹10,758, d% is the discount percentage on the item. The value of d is:																	
Ans	<input checked="" type="checkbox"/> 1. 11% <input checked="" type="checkbox"/> 2. 14% <input checked="" type="checkbox"/> 3. 12% <input checked="" type="checkbox"/> 4. 13%																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153603</td></tr> <tr><td>Option 1 ID :</td><td>441009609583</td></tr> <tr><td>Option 2 ID :</td><td>441009609585</td></tr> <tr><td>Option 3 ID :</td><td>441009609582</td></tr> <tr><td>Option 4 ID :</td><td>441009609584</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 :	441009153603	Option 1 ID :	441009609583	Option 2 ID :	441009609585	Option 3 ID :	441009609582	Option 4 ID :	441009609584	Status :	Answered	Chosen Option :	3
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Option 3 ID :	441009609582																	
Option 4 ID :	441009609584																	
Status :	Answered																	
Chosen Option :	3																	
Q.1 8	Which of the following is NOT a fundamental quantity in the SI system?																	
Ans	<input checked="" type="checkbox"/> 1. Luminous intensity <input checked="" type="checkbox"/> 2. Amount of substance <input checked="" type="checkbox"/> 3. Time <input checked="" type="checkbox"/> 4. Force																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153555</td></tr> <tr><td>Option 1 ID :</td><td>441009609393</td></tr> <tr><td>Option 2 ID :</td><td>441009609392</td></tr> <tr><td>Option 3 ID :</td><td>441009609390</td></tr> <tr><td>Option 4 ID :</td><td>441009609391</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 :	441009153555	Option 1 ID :	441009609393	Option 2 ID :	441009609392	Option 3 ID :	441009609390	Option 4 ID :	441009609391	Status :	Answered	Chosen Option :	4
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Option 4 ID :	441009609391																	
Status :	Answered																	
Chosen Option :	4																	

<p><b>Q.1</b> 9</p> <p><b>Alloys are preferred over pure metals in electrical heating devices:</b></p> <p><b>Ans</b> ✓ 1. because the resistivity of an alloy is generally higher than its constituent metals.</p> <p>✗ 2. because alloys oxidise (burn) readily at high temperatures.</p> <p>✗ 3. because the elasticity of an alloy is higher than that of its constituent metals.</p> <p>✗ 4. because the resistivity of an alloy is lower than that of its constituent metals.</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153506</td></tr> <tr><td>Option 1 ID :</td><td>441009609194</td></tr> <tr><td>Option 2 ID :</td><td>441009609197</td></tr> <tr><td>Option 3 ID :</td><td>441009609196</td></tr> <tr><td>Option 4 ID :</td><td>441009609195</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 :	441009153506	Option 1 ID :	441009609194	Option 2 ID :	441009609197	Option 3 ID :	441009609196	Option 4 ID :	441009609195	Status :	Answered	Chosen Option :	1
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Option 3 ID :	441009609196																
Option 4 ID :	441009609195																
Status :	Answered																
Chosen Option :	1																
<p><b>Q.2</b> 0</p> <p><b>Which of the following correctly describes the direction of electric current?</b></p> <p><b>Ans</b> ✗ 1. From low potential to high potential</p> <p>✗ 2. Opposite to the direction of positive charge flow</p> <p>✗ 3. Same as the direction of electron flow</p> <p>✓ 4. Opposite to the direction of electron flow</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153493</td></tr> <tr><td>Option 1 ID :</td><td>441009609142</td></tr> <tr><td>Option 2 ID :</td><td>441009609145</td></tr> <tr><td>Option 3 ID :</td><td>441009609144</td></tr> <tr><td>Option 4 ID :</td><td>441009609143</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 :	441009153493	Option 1 ID :	441009609142	Option 2 ID :	441009609145	Option 3 ID :	441009609144	Option 4 ID :	441009609143	Status :	Answered	Chosen Option :	4
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Option 3 ID :	441009609144																
Option 4 ID :	441009609143																
Status :	Answered																
Chosen Option :	4																
<p><b>Q.2</b> 1</p> <p><b>Which of the following is an application of the 5S concept in a workshop?</b></p> <p><b>Ans</b> ✗ 1. Increasing the number of safety supervisors</p> <p>✓ 2. Keeping tools and materials organised for easy access</p> <p>✗ 3. Removing safety protocols to improve efficiency</p> <p>✗ 4. Using extra tools without proper storage</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156588</td></tr> <tr><td>Option 1 ID :</td><td>441009621516</td></tr> <tr><td>Option 2 ID :</td><td>441009621515</td></tr> <tr><td>Option 3 ID :</td><td>441009621517</td></tr> <tr><td>Option 4 ID :</td><td>441009621518</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 :	441009156588	Option 1 ID :	441009621516	Option 2 ID :	441009621515	Option 3 ID :	441009621517	Option 4 ID :	441009621518	Status :	Answered	Chosen Option :	1
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Option 2 ID :	441009621515																
Option 3 ID :	441009621517																
Option 4 ID :	441009621518																
Status :	Answered																
Chosen Option :	1																

**Q.2**  
2 Find the value of  $96.86572 \times 10^7$ .

**Ans** ✓ 1. 96,86,57,200

✗ 2. 0.9686572

✗ 3. 96,86,572

✗ 4. 9,68,65,720

Question Type :	MCQ
Question ID :	441009153655
Option 1 ID :	441009609791
Option 2 ID :	441009609793
Option 3 ID :	441009609792
Option 4 ID :	441009609790
Status :	Answered
Chosen Option :	1

**Q.2**  
3 Ampere is the SI unit of \_\_\_\_\_.

**Ans** ✓ 1. electric current

✗ 2. electric power

✗ 3. electric charge

✗ 4. mass

Question Type :	MCQ
Question ID :	441009153556
Option 1 ID :	441009609396
Option 2 ID :	441009609395
Option 3 ID :	441009609397
Option 4 ID :	441009609394
Status :	Answered
Chosen Option :	1



Q.2 4	If a = 21 and b = 19, find the value of $\frac{a^2 + b^2 + ab}{a^3 - b^3}$ .
Ans	<input type="checkbox"/> 1. $\frac{3}{5}$
	<input type="checkbox"/> 2. $\frac{2}{3}$
	<input type="checkbox"/> 3. $\frac{2}{5}$
	<input checked="" type="checkbox"/> 4. $\frac{1}{2}$

Question Type :	MCQ
Question ID :	441009153591
Option 1 ID :	441009609537
Option 2 ID :	441009609535
Option 3 ID :	441009609536
Option 4 ID :	441009609534
Status :	Answered
Chosen Option :	4

Q.2 5	What is the immediate action to take when a fire breaks out in a workplace?
Ans	<input type="checkbox"/> 1. Ignore the fire and continue working
	<input type="checkbox"/> 2. Try to put it out using water without knowing the fire type
	<input type="checkbox"/> 3. Gather near the fire to observe the situation
	<input checked="" type="checkbox"/> 4. Raise the alarm and evacuate the area

Question Type :	MCQ
Question ID :	441009156585
Option 1 ID :	441009621506
Option 2 ID :	441009621505
Option 3 ID :	441009621504
Option 4 ID :	441009621503
Status :	Answered
Chosen Option :	4

Q.2 6	The floor of a rectangular hall has a perimeter of 220 m. If the cost of painting the four walls at the rate of ₹10 per m <sup>2</sup> is ₹11,000, then find the volume of the hall.																	
Ans	<input checked="" type="checkbox"/> 1. 19,250 m <sup>3</sup> <input type="checkbox"/> 2. 19,200 m <sup>3</sup> <input type="checkbox"/> 3. 19,520 m <sup>3</sup> <input type="checkbox"/> 4. 18,250 m <sup>3</sup>																	
		<table border="1"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153674</td></tr> <tr><td>Option 1 ID :</td><td>441009609869</td></tr> <tr><td>Option 2 ID :</td><td>441009609868</td></tr> <tr><td>Option 3 ID :</td><td>441009609867</td></tr> <tr><td>Option 4 ID :</td><td>441009609866</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </tbody> </table>	Question Type :	MCQ	Question ID :	441009153674	Option 1 ID :	441009609869	Option 2 ID :	441009609868	Option 3 ID :	441009609867	Option 4 ID :	441009609866	Status :	Not Answered	Chosen Option :	--
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Question ID :	441009153674																	
Option 1 ID :	441009609869																	
Option 2 ID :	441009609868																	
Option 3 ID :	441009609867																	
Option 4 ID :	441009609866																	
Status :	Not Answered																	
Chosen Option :	--																	
Q.2 7	The list price of an article is ₹5,000 and a discount of 70% is offered on the list price. What additional discount per cent on the already discounted price must be offered to a customer to bring the net selling price to ₹1,275?																	
Ans	<input type="checkbox"/> 1. 10% <input type="checkbox"/> 2. 16% <input type="checkbox"/> 3. 18% <input checked="" type="checkbox"/> 4. 15%																	
		<table border="1"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153608</td></tr> <tr><td>Option 1 ID :</td><td>441009609603</td></tr> <tr><td>Option 2 ID :</td><td>441009609605</td></tr> <tr><td>Option 3 ID :</td><td>441009609604</td></tr> <tr><td>Option 4 ID :</td><td>441009609602</td></tr> <tr><td>Status :</td><td>Not Answered</td></tr> <tr><td>Chosen Option :</td><td>--</td></tr> </tbody> </table>	Question Type :	MCQ	Question ID :	441009153608	Option 1 ID :	441009609603	Option 2 ID :	441009609605	Option 3 ID :	441009609604	Option 4 ID :	441009609602	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																	
Question ID :	441009153608																	
Option 1 ID :	441009609603																	
Option 2 ID :	441009609605																	
Option 3 ID :	441009609604																	
Option 4 ID :	441009609602																	
Status :	Not Answered																	
Chosen Option :	--																	
Q.2 8	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. J has the exam on Friday. Only two people have the exam between V and J. Only four people have the exam between L and V. U has the exam immediately after W. K does not have the exam on Monday. How many people have the exam before K and after I?																	
Ans	<input type="checkbox"/> 1. Three <input checked="" type="checkbox"/> 2. Four <input type="checkbox"/> 3. One <input type="checkbox"/> 4. Two																	
		<table border="1"> <tbody> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155662</td></tr> <tr><td>Option 1 ID :</td><td>441009617817</td></tr> <tr><td>Option 2 ID :</td><td>441009617818</td></tr> <tr><td>Option 3 ID :</td><td>441009617815</td></tr> <tr><td>Option 4 ID :</td><td>441009617816</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 :	441009155662	Option 1 ID :	441009617817	Option 2 ID :	441009617818	Option 3 ID :	441009617815	Option 4 ID :	441009617816	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																	
Question ID :	441009155662																	
Option 1 ID :	441009617817																	
Option 2 ID :	441009617818																	
Option 3 ID :	441009617815																	
Option 4 ID :	441009617816																	
Status :	Answered																	
Chosen Option :	2																	

**Q.2** The median of the data 2, 6, 4, 8, 1, 2, 5, 8, 9, 10, 12, 9, 7, 8, 3, 1, 0, 9, 2, 5 is \_\_\_\_\_.

**9**

**Ans**  1.6  
 2.5.5  
 3.5  
 4.6.5

Question Type :	MCQ
Question ID :	441009153634
Option 1 ID :	441009609708
Option 2 ID :	441009609707
Option 3 ID :	441009609706
Option 4 ID :	441009609709
Status :	Answered
Chosen Option :	2

**Q.3** If an electric heater draws a current of 5 A when the potential difference across its terminals is 75 V, what current will it draw when the potential difference is increased to 150 V?

**0**

**Ans**  1. 10 A  
 2. 15 A  
 3. 20 A  
 4. 30 A

Question Type :	MCQ
Question ID :	441009153507
Option 1 ID :	441009609199
Option 2 ID :	441009609198
Option 3 ID :	441009609201
Option 4 ID :	441009609200
Status :	Answered
Chosen Option :	1



**Q.3** 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?

**1**

(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.)

11 – 121 – 221 – 171; 27 – 729 – 829 – 779

**Ans**

1. 16 – 196 – 296 – 246

2. 13 – 169 – 244 – 188

3. 25 – 625 – 725 – 675

4. 23 – 529 – 629 – 589

Question Type :	MCQ
Question ID :	441009155594
Option 1 ID :	441009617544
Option 2 ID :	441009617543
Option 3 ID :	441009617546
Option 4 ID :	441009617545
Status :	Answered
Chosen Option :	3

**Q.3** The HCF of two numbers is 62, and the other two factors of the LCM of these factors are 7 and 9. Which of the options given below can be a possible value of the smaller of the two numbers?

**2**

**Ans**

1. 432

2. 434

3. 433

4. 431

Question Type :	MCQ
Question ID :	441009160922
Option 1 ID :	441009637394
Option 2 ID :	441009637396
Option 3 ID :	441009637395
Option 4 ID :	441009637393
Status :	Answered
Chosen Option :	1

Q.3	If the sum of lengths of two adjacent sides of a parallelogram is 12 cm, then the perimeter of the parallelogram is:
3	
Ans	<input checked="" type="checkbox"/> 1. 34 cm
	<input checked="" type="checkbox"/> 2. 36 cm
	<input checked="" type="checkbox"/> 3. 20 cm
	<input checked="" type="checkbox"/> 4. 24 cm

Question Type :	MCQ
Question ID :	441009153673
Option 1 ID :	441009609865
Option 2 ID :	441009609864
Option 3 ID :	441009609863
Option 4 ID :	441009609862
Status :	Answered
Chosen Option :	4

---

Q.3	How many base units are given in the SI system?
4	
Ans	<input checked="" type="checkbox"/> 1. 9
	<input checked="" type="checkbox"/> 2. 7
	<input checked="" type="checkbox"/> 3. 3
	<input checked="" type="checkbox"/> 4. 11

Question Type :	MCQ
Question ID :	441009153557
Option 1 ID :	441009609400
Option 2 ID :	441009609399
Option 3 ID :	441009609398
Option 4 ID :	441009609401
Status :	Answered
Chosen Option :	2

---

Q.3	A is thrice as good a workman as B and together they can finish a piece of work in 12 days. In how many days can A alone finish the work?
5	
Ans	<input checked="" type="checkbox"/> 1. 14 days
	<input checked="" type="checkbox"/> 2. 12 days
	<input checked="" type="checkbox"/> 3. 16 days
	<input checked="" type="checkbox"/> 4. 18 days

Question Type :	MCQ
Question ID :	441009153651
Option 1 ID :	441009609775
Option 2 ID :	441009609774
Option 3 ID :	441009609776
Option 4 ID :	441009609777
Status :	Answered
Chosen Option :	3

<p><b>Q.3</b> 6</p>	<p>Which of the following is NOT one of the 5S principles?</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. Sustain</p> <p><input checked="" type="checkbox"/> 2. Supervise</p> <p><input checked="" type="checkbox"/> 3. Standardise</p> <p><input checked="" type="checkbox"/> 4. Sort</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>441009156589</td></tr> <tr><td>Option 1 ID :</td><td>441009621522</td></tr> <tr><td>Option 2 ID :</td><td>441009621521</td></tr> <tr><td>Option 3 ID :</td><td>441009621520</td></tr> <tr><td>Option 4 ID :</td><td>441009621519</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 :	441009156589	Option 1 ID :	441009621522	Option 2 ID :	441009621521	Option 3 ID :	441009621520	Option 4 ID :	441009621519	Status :	Answered	Chosen Option :	1
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Question ID :	441009156589																
Option 1 ID :	441009621522																
Option 2 ID :	441009621521																
Option 3 ID :	441009621520																
Option 4 ID :	441009621519																
Status :	Answered																
Chosen Option :	1																
<p><b>Q.3</b> 7</p>	<p>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 pair)</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. DW – YA</p> <p><input checked="" type="checkbox"/> 2. MF – HJ</p> <p><input checked="" type="checkbox"/> 3. WP – RS</p> <p><input checked="" type="checkbox"/> 4. SL – NP</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>441009156645</td></tr> <tr><td>Option 1 ID :</td><td>441009617749</td></tr> <tr><td>Option 2 ID :</td><td>441009617747</td></tr> <tr><td>Option 3 ID :</td><td>441009617748</td></tr> <tr><td>Option 4 ID :</td><td>441009617750</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 :	441009156645	Option 1 ID :	441009617749	Option 2 ID :	441009617747	Option 3 ID :	441009617748	Option 4 ID :	441009617750	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																
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Option 1 ID :	441009617749																
Option 2 ID :	441009617747																
Option 3 ID :	441009617748																
Option 4 ID :	441009617750																
Status :	Answered																
Chosen Option :	3																
<p><b>Q.3</b> 8</p>	<p>Which of the following is a poor conductor of heat?</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. Wool</p> <p><input checked="" type="checkbox"/> 2. Steel spoon</p> <p><input checked="" type="checkbox"/> 3. Copper</p> <p><input checked="" type="checkbox"/> 4. Aluminium rod</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>441009154517</td></tr> <tr><td>Option 1 ID :</td><td>441009613231</td></tr> <tr><td>Option 2 ID :</td><td>441009613232</td></tr> <tr><td>Option 3 ID :</td><td>441009613230</td></tr> <tr><td>Option 4 ID :</td><td>441009613233</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 :	441009154517	Option 1 ID :	441009613231	Option 2 ID :	441009613232	Option 3 ID :	441009613230	Option 4 ID :	441009613233	Status :	Answered	Chosen Option :	1
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Option 1 ID :	441009613231																
Option 2 ID :	441009613232																
Option 3 ID :	441009613230																
Option 4 ID :	441009613233																
Status :	Answered																
Chosen Option :	1																

<p><b>Q.3</b></p> <p><b>9</b></p>	<p>Rakesh starts a business with a capital of ₹2,50,000. He incurs a loss of 5% during the first year. However, he makes a profit of 4% on his remaining investment during the second year. Finally, he makes a profit of 20% on his new capital during the third year. Find his total profit at the end of three years.</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. ₹46,400</p> <p><input type="checkbox"/> 2. ₹46,500</p> <p><input type="checkbox"/> 3. ₹46,700</p> <p><input type="checkbox"/> 4. ₹46,600</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><b>441009153653</b></td></tr> <tr><td>Option 1 ID :</td><td><b>441009609782</b></td></tr> <tr><td>Option 2 ID :</td><td><b>441009609783</b></td></tr> <tr><td>Option 3 ID :</td><td><b>441009609785</b></td></tr> <tr><td>Option 4 ID :</td><td><b>441009609784</b></td></tr> <tr><td>Status :</td><td><b>Not Answered</b></td></tr> <tr><td>Chosen Option :</td><td><b>--</b></td></tr> </table>		Question Type :	<b>MCQ</b>	Question ID :	<b>441009153653</b>	Option 1 ID :	<b>441009609782</b>	Option 2 ID :	<b>441009609783</b>	Option 3 ID :	<b>441009609785</b>	Option 4 ID :	<b>441009609784</b>	Status :	<b>Not Answered</b>	Chosen Option :	<b>--</b>
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Option 4 ID :	<b>441009609784</b>																
Status :	<b>Not Answered</b>																
Chosen Option :	<b>--</b>																
<p><b>Q.4</b></p> <p><b>0</b></p>	<p>The resistances of 30 ohm, 20 ohm and 60 ohm are connected in parallel. The equivalent resistance of the combination is _____.</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 110 ohm</p> <p><input type="checkbox"/> 2. 0.1 ohm</p> <p><input type="checkbox"/> 3. 12 ohm</p> <p><input checked="" type="checkbox"/> 4. 10 ohm</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><b>441009153489</b></td></tr> <tr><td>Option 1 ID :</td><td><b>441009609128</b></td></tr> <tr><td>Option 2 ID :</td><td><b>441009609126</b></td></tr> <tr><td>Option 3 ID :</td><td><b>441009609127</b></td></tr> <tr><td>Option 4 ID :</td><td><b>441009609129</b></td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td><b>4</b></td></tr> </table>		Question Type :	<b>MCQ</b>	Question ID :	<b>441009153489</b>	Option 1 ID :	<b>441009609128</b>	Option 2 ID :	<b>441009609126</b>	Option 3 ID :	<b>441009609127</b>	Option 4 ID :	<b>441009609129</b>	Status :	<b>Answered</b>	Chosen Option :	<b>4</b>
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Option 4 ID :	<b>441009609129</b>																
Status :	<b>Answered</b>																
Chosen Option :	<b>4</b>																
<p><b>Q.4</b></p> <p><b>1</b></p>	<p>What should come in place of the question mark (?) in the given series? UT27, RQ25, NM23, ?</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. IG21</p> <p><input type="checkbox"/> 2. IH29</p> <p><input type="checkbox"/> 3. JH19</p> <p><input checked="" type="checkbox"/> 4. IH21</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><b>441009155678</b></td></tr> <tr><td>Option 1 ID :</td><td><b>441009617879</b></td></tr> <tr><td>Option 2 ID :</td><td><b>441009617881</b></td></tr> <tr><td>Option 3 ID :</td><td><b>441009617880</b></td></tr> <tr><td>Option 4 ID :</td><td><b>441009617882</b></td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td><b>4</b></td></tr> </table>		Question Type :	<b>MCQ</b>	Question ID :	<b>441009155678</b>	Option 1 ID :	<b>441009617879</b>	Option 2 ID :	<b>441009617881</b>	Option 3 ID :	<b>441009617880</b>	Option 4 ID :	<b>441009617882</b>	Status :	<b>Answered</b>	Chosen Option :	<b>4</b>
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Status :	<b>Answered</b>																
Chosen Option :	<b>4</b>																

<p><b>Q.4</b> 2</p>	<p>Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.</p> <p>(Left) K A T &amp; 4 @ Y # 6 K &amp; 2 R % 7 D 3 5 E * S (Right)</p> <p>How many such symbols are there which are immediately preceded by a number and also immediately followed by a letter?</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. One</p> <p><input type="checkbox"/> 2. Three</p> <p><input type="checkbox"/> 3. Two</p> <p><input type="checkbox"/> 4. Four</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>441009160820</td></tr> <tr><td>Option 1 ID :</td><td>441009637004</td></tr> <tr><td>Option 2 ID :</td><td>441009637006</td></tr> <tr><td>Option 3 ID :</td><td>441009637005</td></tr> <tr><td>Option 4 ID :</td><td>441009637007</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 :	441009160820	Option 1 ID :	441009637004	Option 2 ID :	441009637006	Option 3 ID :	441009637005	Option 4 ID :	441009637007	Status :	Answered	Chosen Option :	1
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Option 1 ID :	441009637004																
Option 2 ID :	441009637006																
Option 3 ID :	441009637005																
Option 4 ID :	441009637007																
Status :	Answered																
Chosen Option :	1																
<p><b>Q.4</b> 3</p>	<p>Match the following.</p> <p>(A) Continuous thick lines (P) Projection lines                  (B) Hidden lines (Q) Principal lines                  (C) Outlines (R) Dotted lines                  (D) Extension lines (S) Object lines</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. A-S, B-R, C-Q, D-P</p> <p><input type="checkbox"/> 2. A-R, B-S, C-Q, D-P</p> <p><input type="checkbox"/> 3. A-S, B-R, C-P, D-Q</p> <p><input type="checkbox"/> 4. A-P, B-R, C-Q, D-S</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>441009156541</td></tr> <tr><td>Option 1 ID :</td><td>441009621327</td></tr> <tr><td>Option 2 ID :</td><td>441009621330</td></tr> <tr><td>Option 3 ID :</td><td>441009621329</td></tr> <tr><td>Option 4 ID :</td><td>441009621328</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 :	441009156541	Option 1 ID :	441009621327	Option 2 ID :	441009621330	Option 3 ID :	441009621329	Option 4 ID :	441009621328	Status :	Answered	Chosen Option :	3
Question Type :	MCQ																
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Option 2 ID :	441009621330																
Option 3 ID :	441009621329																
Option 4 ID :	441009621328																
Status :	Answered																
Chosen Option :	3																

<p><b>Q.4</b> 4</p>	<p>Which of the following is an example of uniform motion?</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. A vehicle moving through a crowded area</p> <p><input checked="" type="checkbox"/> 2. A train moving at a constant speed on a straight track</p> <p><input type="checkbox"/> 3. A sprinter running a 100-metre race with varying speed</p> <p><input type="checkbox"/> 4. A ball rolling down a slope</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>441009153530</td></tr> <tr><td>Option 1 ID :</td><td>441009609291</td></tr> <tr><td>Option 2 ID :</td><td>441009609290</td></tr> <tr><td>Option 3 ID :</td><td>441009609292</td></tr> <tr><td>Option 4 ID :</td><td>441009609293</td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>		Question Type :	<b>MCQ</b>	Question ID :	441009153530	Option 1 ID :	441009609291	Option 2 ID :	441009609290	Option 3 ID :	441009609292	Option 4 ID :	441009609293	Status :	<b>Answered</b>	Chosen Option :	2
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Option 2 ID :	441009609290																
Option 3 ID :	441009609292																
Option 4 ID :	441009609293																
Status :	<b>Answered</b>																
Chosen Option :	2																
<p><b>Q.4</b> 5</p>	<p>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?</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>24 – 48 – 108 – 36; 18 – 36 – 96 – 32</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 82 – 139 – 234 – 78</p> <p><input type="checkbox"/> 2. 132 – 264 – 444 – 138</p> <p><input type="checkbox"/> 3. 53 – 106 – 166 – 55</p> <p><input checked="" type="checkbox"/> 4. 48 – 96 – 156 – 52</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>441009155596</td></tr> <tr><td>Option 1 ID :</td><td>441009617551</td></tr> <tr><td>Option 2 ID :</td><td>441009617552</td></tr> <tr><td>Option 3 ID :</td><td>441009617554</td></tr> <tr><td>Option 4 ID :</td><td>441009617553</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 :	441009155596	Option 1 ID :	441009617551	Option 2 ID :	441009617552	Option 3 ID :	441009617554	Option 4 ID :	441009617553	Status :	<b>Answered</b>	Chosen Option :	4
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Option 1 ID :	441009617551																
Option 2 ID :	441009617552																
Option 3 ID :	441009617554																
Option 4 ID :	441009617553																
Status :	<b>Answered</b>																
Chosen Option :	4																

Q.4 Match the following, according to lettering and numbering (uppercase lettering) as per BIS SP: 46-2003.

**Width (W) Capital letters**

- (A) 5 (I) W
- (B) 6 (II) A, M, Q, V, X, Y
- (C) 7 (III) B, D, G, H, K, N, O, P, R, S, T, U and Z
- (D) 9 (IV) C, E, F, L

- Ans
- 1. A-(I), B-(III), C-(II), D-(IV)
  - 2. A-(IV), B-(III), C-(II), D-(I)
  - 3. A-(IV), B-(III), C-(I), D-(II)
  - 4. A-(IV), B-(II), C-(III), D-(I)

Question Type :	MCQ
Question ID :	441009156546
Option 1 ID :	441009621348
Option 2 ID :	441009621347
Option 3 ID :	441009621350
Option 4 ID :	441009621349
Status :	Not Answered
Chosen Option :	--

Q.4 An object of mass  $m$  is made to fall freely from a height  $h$ . As the object continues to fall, what will happen to its energy?

- Ans
- 1. The kinetic energy and potential energy will not change.
  - 2. The potential energy would decrease while the kinetic energy would increase.
  - 3. The potential energy would increase while the kinetic energy would decrease.
  - 4. The potential energy and kinetic energy will both increase.

Question Type :	MCQ
Question ID :	441009153509
Option 1 ID :	441009609207
Option 2 ID :	441009609209
Option 3 ID :	441009609208
Option 4 ID :	441009609206
Status :	Answered
Chosen Option :	1

<p><b>Q.4</b></p>	<p>A can complete a piece of work in 18 days. B can complete it in 14 days. With the assistance of C, they completed the work in 7 days. C alone can complete it in _____ days.</p>																	
<p><b>Ans</b></p>	<p>✓ 1. 63</p> <p>✗ 2. 42</p> <p>✗ 3. 64</p> <p>✗ 4. 36</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>441009153597</td></tr> <tr><td>Option 1 ID :</td><td>441009609558</td></tr> <tr><td>Option 2 ID :</td><td>441009609561</td></tr> <tr><td>Option 3 ID :</td><td>441009609560</td></tr> <tr><td>Option 4 ID :</td><td>441009609559</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 :	441009153597	Option 1 ID :	441009609558	Option 2 ID :	441009609561	Option 3 ID :	441009609560	Option 4 ID :	441009609559	Status :	Answered	Chosen Option :	1
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Option 4 ID :	441009609559																	
Status :	Answered																	
Chosen Option :	1																	
<p><b>Q.4</b></p>	<p>What should come in place of the question mark (?) in the given alpha-numeric series? 9 2M, 5O, 10R, 13T, 18W, 21Y, ?</p>																	
<p><b>Ans</b></p>	<p>✓ 1. 26B</p> <p>✗ 2. 26C</p> <p>✗ 3. 24B</p> <p>✗ 4. 26A</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>441009155674</td></tr> <tr><td>Option 1 ID :</td><td>441009617866</td></tr> <tr><td>Option 2 ID :</td><td>441009617864</td></tr> <tr><td>Option 3 ID :</td><td>441009617863</td></tr> <tr><td>Option 4 ID :</td><td>441009617865</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 :	441009155674	Option 1 ID :	441009617866	Option 2 ID :	441009617864	Option 3 ID :	441009617863	Option 4 ID :	441009617865	Status :	Answered	Chosen Option :	1
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Option 2 ID :	441009617864																	
Option 3 ID :	441009617863																	
Option 4 ID :	441009617865																	
Status :	Answered																	
Chosen Option :	1																	
<p><b>Q.5</b></p>	<p>The mode of 4, 6, 4, 6, 5, 7, 5, 7, 4, 6, 7, 6 is:</p>																	
<p><b>Ans</b></p>	<p>✗ 1. 4</p> <p>✓ 2. 6</p> <p>✗ 3. 5</p> <p>✗ 4. 7</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>441009153644</td></tr> <tr><td>Option 1 ID :</td><td>441009609746</td></tr> <tr><td>Option 2 ID :</td><td>441009609748</td></tr> <tr><td>Option 3 ID :</td><td>441009609747</td></tr> <tr><td>Option 4 ID :</td><td>441009609749</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 :	441009153644	Option 1 ID :	441009609746	Option 2 ID :	441009609748	Option 3 ID :	441009609747	Option 4 ID :	441009609749	Status :	Answered	Chosen Option :	2
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Question ID :	441009153644																	
Option 1 ID :	441009609746																	
Option 2 ID :	441009609748																	
Option 3 ID :	441009609747																	
Option 4 ID :	441009609749																	
Status :	Answered																	
Chosen Option :	2																	

<p><b>Q.5</b> How fast should a cat of mass 15 kg run in order to have a kinetic energy of 120 J? 1</p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. 40 m/s  <input checked="" type="checkbox"/> 2. 4 m/s  <input checked="" type="checkbox"/> 3. 16 m/s  <input checked="" type="checkbox"/> 4. 0.16 m/s</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153510</td></tr> <tr><td>Option 1 ID :</td><td>441009609212</td></tr> <tr><td>Option 2 ID :</td><td>441009609211</td></tr> <tr><td>Option 3 ID :</td><td>441009609210</td></tr> <tr><td>Option 4 ID :</td><td>441009609213</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 :	441009153510	Option 1 ID :	441009609212	Option 2 ID :	441009609211	Option 3 ID :	441009609210	Option 4 ID :	441009609213	Status :	Answered	Chosen Option :	2
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Option 1 ID :	441009609212																
Option 2 ID :	441009609211																
Option 3 ID :	441009609210																
Option 4 ID :	441009609213																
Status :	Answered																
Chosen Option :	2																
<p><b>Q.5</b> In a certain code language, 'WILD' is coded as '8164' and 'DOGS' is coded as '3517'. 2 What is the code for 'D' in the given code language?</p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. 4  <input checked="" type="checkbox"/> 2. 1  <input checked="" type="checkbox"/> 3. 3  <input checked="" type="checkbox"/> 4. 5</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155627</td></tr> <tr><td>Option 1 ID :</td><td>441009617677</td></tr> <tr><td>Option 2 ID :</td><td>441009617675</td></tr> <tr><td>Option 3 ID :</td><td>441009617676</td></tr> <tr><td>Option 4 ID :</td><td>441009617678</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 :	441009155627	Option 1 ID :	441009617677	Option 2 ID :	441009617675	Option 3 ID :	441009617676	Option 4 ID :	441009617678	Status :	Answered	Chosen Option :	2
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Option 1 ID :	441009617677																
Option 2 ID :	441009617675																
Option 3 ID :	441009617676																
Option 4 ID :	441009617678																
Status :	Answered																
Chosen Option :	2																
<p><b>Q.5</b> Simran rides a distance of 60 m in one minute and then returns along the same straight 3 path. The average velocity of her ride is ____.</p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. 0 m/s  <input checked="" type="checkbox"/> 2. 2 m/s  <input checked="" type="checkbox"/> 3. 1 m/s  <input checked="" type="checkbox"/> 4. 60 m/s</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153494</td></tr> <tr><td>Option 1 ID :</td><td>441009609147</td></tr> <tr><td>Option 2 ID :</td><td>441009609146</td></tr> <tr><td>Option 3 ID :</td><td>441009609149</td></tr> <tr><td>Option 4 ID :</td><td>441009609148</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 :	441009153494	Option 1 ID :	441009609147	Option 2 ID :	441009609146	Option 3 ID :	441009609149	Option 4 ID :	441009609148	Status :	Answered	Chosen Option :	1
Question Type :	MCQ																
Question ID :	441009153494																
Option 1 ID :	441009609147																
Option 2 ID :	441009609146																
Option 3 ID :	441009609149																
Option 4 ID :	441009609148																
Status :	Answered																
Chosen Option :	1																

**Q.5** The resistance of a metallic wire is R. If the radius of the metallic wire is reduced to half of its initial value while keeping all other parameters the same, the new resistance becomes \_\_\_\_\_.

**4**

Ans	<input type="checkbox"/> 1. $\frac{R}{4}$
	<input type="checkbox"/> 2. $\frac{R}{2}$
	<input type="checkbox"/> 3. 2R
	<input checked="" type="checkbox"/> 4. 4R

Question Type :	MCQ
Question ID :	441009153488
Option 1 ID :	441009609125
Option 2 ID :	441009609124
Option 3 ID :	441009609122
Option 4 ID :	441009609123
Status :	Answered
Chosen Option :	4

**Q.5** Select the pair that follows the same pattern as the one followed by the two sets of pairs given below. Both pairs follow the same pattern.

**5**

BSR : QWV  
LOB : QMG

Ans	<input checked="" type="checkbox"/> 1. RWH : WUM
	<input type="checkbox"/> 2. HVD : LTH
	<input type="checkbox"/> 3. KRW : NPZ
	<input type="checkbox"/> 4. QGT : TDW

Question Type :	MCQ
Question ID :	441009155636
Option 1 ID :	441009617712
Option 2 ID :	441009617711
Option 3 ID :	441009617714
Option 4 ID :	441009617713
Status :	Answered
Chosen Option :	1

Q.5	If 11.6 : x :: x : 2.9, and x > 0, then find the value of x.																	
6																		
Ans	<input checked="" type="checkbox"/> 1. 10.9 <input checked="" type="checkbox"/> 2. 7.7 <input checked="" type="checkbox"/> 3. 5.8 <input checked="" type="checkbox"/> 4. 3.1																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153612</td></tr> <tr><td>Option 1 ID :</td><td>441009609620</td></tr> <tr><td>Option 2 ID :</td><td>441009609619</td></tr> <tr><td>Option 3 ID :</td><td>441009609618</td></tr> <tr><td>Option 4 ID :</td><td>441009609621</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 :	441009153612	Option 1 ID :	441009609620	Option 2 ID :	441009609619	Option 3 ID :	441009609618	Option 4 ID :	441009609621	Status :	Answered	Chosen Option :	3
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Question ID :	441009153612																	
Option 1 ID :	441009609620																	
Option 2 ID :	441009609619																	
Option 3 ID :	441009609618																	
Option 4 ID :	441009609621																	
Status :	Answered																	
Chosen Option :	3																	
Q.5	What is the first step when encountering a system failure in a workplace?																	
7																		
Ans	<input checked="" type="checkbox"/> 1. Report the issue and follow the emergency protocol <input checked="" type="checkbox"/> 2. Ignore the failure and continue working <input checked="" type="checkbox"/> 3. Immediately restart all systems without inspection <input checked="" type="checkbox"/> 4. Disconnect all power sources permanently																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156584</td></tr> <tr><td>Option 1 ID :</td><td>441009621501</td></tr> <tr><td>Option 2 ID :</td><td>441009621502</td></tr> <tr><td>Option 3 ID :</td><td>441009621499</td></tr> <tr><td>Option 4 ID :</td><td>441009621500</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 :	441009156584	Option 1 ID :	441009621501	Option 2 ID :	441009621502	Option 3 ID :	441009621499	Option 4 ID :	441009621500	Status :	Answered	Chosen Option :	1
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Question ID :	441009156584																	
Option 1 ID :	441009621501																	
Option 2 ID :	441009621502																	
Option 3 ID :	441009621499																	
Option 4 ID :	441009621500																	
Status :	Answered																	
Chosen Option :	1																	
Q.5	What should come in place of the question mark (?) in the given series?																	
8	87 118 149 ? 211 242																	
Ans	<input checked="" type="checkbox"/> 1. 188 <input checked="" type="checkbox"/> 2. 171 <input checked="" type="checkbox"/> 3. 180 <input checked="" type="checkbox"/> 4. 199																	
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155605</td></tr> <tr><td>Option 1 ID :</td><td>441009617589</td></tr> <tr><td>Option 2 ID :</td><td>441009617587</td></tr> <tr><td>Option 3 ID :</td><td>441009617588</td></tr> <tr><td>Option 4 ID :</td><td>441009617590</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 :	441009155605	Option 1 ID :	441009617589	Option 2 ID :	441009617587	Option 3 ID :	441009617588	Option 4 ID :	441009617590	Status :	Answered	Chosen Option :	3
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Option 3 ID :	441009617588																	
Option 4 ID :	441009617590																	
Status :	Answered																	
Chosen Option :	3																	

<p><b>Q.5</b></p>	<p>Jaspreet deposited a sum of ₹12,800 at 5% rate of interest per annum, compounded annually. The total amount (in ₹) received by Jaspreet after 2 years will be:</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 13,997</p> <p><input checked="" type="checkbox"/> 2. 14,112</p> <p><input type="checkbox"/> 3. 14,512</p> <p><input type="checkbox"/> 4. 14,442</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>441009153606</td></tr> <tr><td>Option 1 ID :</td><td>441009609595</td></tr> <tr><td>Option 2 ID :</td><td>441009609594</td></tr> <tr><td>Option 3 ID :</td><td>441009609596</td></tr> <tr><td>Option 4 ID :</td><td>441009609597</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 :	441009153606	Option 1 ID :	441009609595	Option 2 ID :	441009609594	Option 3 ID :	441009609596	Option 4 ID :	441009609597	Status :	Answered	Chosen Option :	2
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Option 2 ID :	441009609594																
Option 3 ID :	441009609596																
Option 4 ID :	441009609597																
Status :	Answered																
Chosen Option :	2																
<p><b>Q.6</b></p>	<p>Which key combination is commonly used for copying text in many text editing applications in Windows?</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. Ctrl+V</p> <p><input type="checkbox"/> 2. Ctrl+S</p> <p><input checked="" type="checkbox"/> 3. Ctrl+C</p> <p><input type="checkbox"/> 4. Tab</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>441009156680</td></tr> <tr><td>Option 1 ID :</td><td>441009621886</td></tr> <tr><td>Option 2 ID :</td><td>441009621885</td></tr> <tr><td>Option 3 ID :</td><td>441009621884</td></tr> <tr><td>Option 4 ID :</td><td>441009621883</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 :	441009156680	Option 1 ID :	441009621886	Option 2 ID :	441009621885	Option 3 ID :	441009621884	Option 4 ID :	441009621883	Status :	Answered	Chosen Option :	3
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Chosen Option :	3																
<p><b>Q.6</b></p>	<p>How many significant figures are there in 4.700 m?</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 3</p> <p><input type="checkbox"/> 2. 1</p> <p><input type="checkbox"/> 3. 2</p> <p><input checked="" type="checkbox"/> 4. 4</p>																
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Option 3 ID :	441009609407																
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Status :	Answered																
Chosen Option :	3																

Q.6 2	In a business, Tushar invests in ₹10,000 and Salil invests in ₹20,000. Tushar received 10% of the profit for managing the business and the rest of the profit is divided in the ratio of their capitals. Find Tushar's share of the profit (in ₹) in a profit of ₹14,400.																
Ans	<input checked="" type="checkbox"/> 1. 5,610 <input checked="" type="checkbox"/> 2. 5,760 <input checked="" type="checkbox"/> 3. 5,510 <input checked="" type="checkbox"/> 4. 5,910																
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Status :	Not Answered																
Chosen Option :	--																
Q.6 3	Which of the following correctly describes the role of DNS (Domain Name System) in internet architecture?																
Ans	<input checked="" type="checkbox"/> 1. DNS routes data packets to their destination across the internet. <input checked="" type="checkbox"/> 2. DNS translates domain names into IP addresses to allow browsers to locate web servers. <input checked="" type="checkbox"/> 3. DNS translates IP addresses into domain names to make them easier to remember. <input checked="" type="checkbox"/> 4. DNS secures the data transmitted over the internet by encrypting it.																
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Option 3 ID :	441009621859																
Option 4 ID :	441009621862																
Status :	Answered																
Chosen Option :	3																
Q.6 4	Which of the following is an INCORRECT formula for power?																
Ans	<input checked="" type="checkbox"/> 1. $VI$ <input checked="" type="checkbox"/> 2. $I^2R$ <input checked="" type="checkbox"/> 3. $I^2Rt$ <input checked="" type="checkbox"/> 4. $V^2/R$																
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Option 4 ID :	441009609141																
Status :	Answered																
Chosen Option :	3																

<p><b>Q.6</b> <b>5</b></p>	<p>A boy goes to school at a speed of 5 km/hr. He returns at a speed of 14 km/hr. He takes a total of 8 hours for both going to school and returning. The distance (in km) between his home and school is:</p>																	
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. 29.5</p> <p><input type="checkbox"/> 2. 27</p> <p><input type="checkbox"/> 3. 28.6</p> <p><input type="checkbox"/> 4. 31</p>																	
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Status :	<b>Answered</b>																	
Chosen Option :	<b>1</b>																	
<p><b>Q.6</b> <b>6</b></p>	<p>Which of the following features allows the user to quickly find emails received from a specific sender?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. Archive</p> <p><input type="checkbox"/> 2. Draft</p> <p><input type="checkbox"/> 3. Filter</p> <p><input checked="" type="checkbox"/> 4. Sort</p>																	
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Option 4 ID :	<b>441009621863</b>																	
Status :	<b>Answered</b>																	
Chosen Option :	<b>3</b>																	
<p><b>Q.6</b> <b>7</b></p>	<p>If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', then what will come in place of the question mark (?) in the following equation?</p> <p>35 A 7 C 9 B 3 D 16 = ?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 21</p> <p><input type="checkbox"/> 2. 18</p> <p><input checked="" type="checkbox"/> 3. 16</p> <p><input type="checkbox"/> 4. 10</p>																	
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Chosen Option :	<b>3</b>																	

<p><b>Q.6</b> 8</p>	<p><b>What is the main function of the Transport Layer in the internet architecture?</b></p>																	
<p><b>Ans</b></p>	<p>✓ 1. Reliable data transfer and error correction</p> <p>✗ 2. Data encapsulation</p> <p>✗ 3. Routing of packets</p> <p>✗ 4. IP addressing</p>																	
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Chosen Option :	3																	
<p><b>Q.6</b> 9</p>	<p><b>A line in an engineering drawing is the _____.</b></p>																	
<p><b>Ans</b></p>	<p>✓ 1. one-dimensional figure, which has length but no width</p> <p>✗ 2. dimensionless location in space or on a drawing sheet that has no width, height, or depth</p> <p>✗ 3. three-dimensional object with length, breadth, and height</p> <p>✗ 4. closed curve where all points are the same distance from a fixed centre point</p>																	
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<p><b>Q.7</b> 0</p>	<p><b>The heat developed in a 5 ohm resistor in 2 minutes when a 2A current passes through it is _____.</b></p>																	
<p><b>Ans</b></p>	<p>✓ 1. 2400 J</p> <p>✗ 2. 500 J</p> <p>✗ 3. 1000 J</p> <p>✗ 4. 40 J</p>																	
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Status :	<b>Answered</b>																	
Chosen Option :	1																	

<p><b>Q.7</b> <b>1</b></p>	<p>The areas of three adjacent faces of a solid cuboid are <math>162\text{ cm}^2</math>, <math>144\text{ cm}^2</math> and <math>50\text{ cm}^2</math>. What is the volume (in <math>\text{cm}^3</math>) of the cuboid?</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. 1080</p> <p><input type="checkbox"/> 2. 805</p> <p><input type="checkbox"/> 3. 833</p> <p><input type="checkbox"/> 4. 1365</p>																
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Option 4 ID :	441009609836																
Status :	Answered																
Chosen Option :	1																
<p><b>Q.7</b> <b>2</b></p>	<p>Pihu starts her car at 9 a.m. to reach her office, which is 20 km away. She covers the first 10 km in 30 minutes and reaches her office at 10 a.m. Pihu's motion is _____.</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. retarded motion</p> <p><input type="checkbox"/> 2. non-uniform motion</p> <p><input type="checkbox"/> 3. accelerated motion</p> <p><input checked="" type="checkbox"/> 4. uniform motion</p>																
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Option 3 ID :	441009609156																
Option 4 ID :	441009609154																
Status :	Answered																
Chosen Option :	4																
<p><b>Q.7</b> <b>3</b></p>	<p>How does turning off unused electrical devices contribute to energy conservation?</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. By lowering utility bills</p> <p><input type="checkbox"/> 2. By enhancing device performance</p> <p><input type="checkbox"/> 3. By degrading electrical devices</p> <p><input type="checkbox"/> 4. By increasing energy use</p>																
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Status :	Answered																
Chosen Option :	1																

<p><b>Q.7</b> 4</p>	<p>An electric lamp with a resistance of 35 ohms and a conductor with a resistance of 5 ohms are connected to an 8 V battery in series. Calculate the current flowing through the circuit.</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. 0.2 A</p> <p><input type="checkbox"/> 2. 1.82 A</p> <p><input type="checkbox"/> 3. 40 A</p> <p><input type="checkbox"/> 4. 2 A</p>																
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Option 4 ID :	441009609193																
Status :	<b>Answered</b>																
Chosen Option :	1																
<p><b>Q.7</b> 5</p>	<p>Calculate the energy possessed by an object of mass 10 kg when it is raised to a height of 5 m from the ground. Given: <math>g = 9.8 \text{ m s}^{-2}</math>.</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 500 J</p> <p><input type="checkbox"/> 2. 450 J</p> <p><input checked="" type="checkbox"/> 3. 490 J</p> <p><input type="checkbox"/> 4. 400 J</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>441009153500</td></tr> <tr><td>Option 1 ID :</td><td>441009609171</td></tr> <tr><td>Option 2 ID :</td><td>441009609173</td></tr> <tr><td>Option 3 ID :</td><td>441009609170</td></tr> <tr><td>Option 4 ID :</td><td>441009609172</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 :	441009153500	Option 1 ID :	441009609171	Option 2 ID :	441009609173	Option 3 ID :	441009609170	Option 4 ID :	441009609172	Status :	<b>Answered</b>	Chosen Option :	3
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Option 2 ID :	441009609173																
Option 3 ID :	441009609170																
Option 4 ID :	441009609172																
Status :	<b>Answered</b>																
Chosen Option :	3																



Q.7 6	If $\frac{\sin\theta + \cos\theta}{\sin\theta - \cos\theta} = 12$ , then the value of $\frac{121\tan^2\theta - 3}{169\cot^2\theta + 1}$ is:
Ans	<div style="display: flex; justify-content: space-between;"> <div style="width: 20px; text-align: center;">✗ 1.</div> <div style="width: 80%;"><math>-\frac{83}{21}</math></div> </div>
	<div style="display: flex; justify-content: space-between;"> <div style="width: 20px; text-align: center;">✗ 2.</div> <div style="width: 80%;"><math>-\frac{83}{61}</math></div> </div>
	<div style="display: flex; justify-content: space-between;"> <div style="width: 20px; text-align: center;">✓ 3.</div> <div style="width: 80%;"><math>\frac{83}{61}</math></div> </div>
	<div style="display: flex; justify-content: space-between;"> <div style="width: 20px; text-align: center;">✗ 4.</div> <div style="width: 80%;"><math>\frac{83}{21}</math></div> </div>

Question Type : MCQ
Question ID : 441009153669
Option 1 ID : 441009609848
Option 2 ID : 441009609849
Option 3 ID : 441009609847
Option 4 ID : 441009609846
Status : Answered
Chosen Option : 3

Q.7 7	E, F, G, H, P, Q, and R, are sitting around a circular table facing the centre. F sits fourth to the right of E. Only R sits between F and H. H is NOT an immediate neighbour of E. Only P sits between E and G. How many people sit between G and Q when counted from the right of G?
Ans	<div style="display: flex; justify-content: space-between;"> <div style="width: 20px; text-align: center;">✓ 1.</div> <div style="width: 80%;">Two</div> </div>
	<div style="display: flex; justify-content: space-between;"> <div style="width: 20px; text-align: center;">✗ 2.</div> <div style="width: 80%;">Three</div> </div>
	<div style="display: flex; justify-content: space-between;"> <div style="width: 20px; text-align: center;">✗ 3.</div> <div style="width: 80%;">Four</div> </div>
	<div style="display: flex; justify-content: space-between;"> <div style="width: 20px; text-align: center;">✗ 4.</div> <div style="width: 80%;">One</div> </div>

Question Type : MCQ
Question ID : 441009155670
Option 1 ID : 441009617848
Option 2 ID : 441009617849
Option 3 ID : 441009617850
Option 4 ID : 441009617847
Status : Answered
Chosen Option : 1

Q.7 8	Find the value of $x^2 + y^2$ , given that, $x = 7 + \sqrt{1}$ , $y = 7 - \sqrt{1}$ .																	
Ans	<input type="checkbox"/> 1. 56																	
	<input type="checkbox"/> 2. 69																	
	<input checked="" type="checkbox"/> 3. 100																	
	<input type="checkbox"/> 4. 98																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153616</td></tr> <tr><td>Option 1 ID :</td><td>441009609635</td></tr> <tr><td>Option 2 ID :</td><td>441009609637</td></tr> <tr><td>Option 3 ID :</td><td>441009609634</td></tr> <tr><td>Option 4 ID :</td><td>441009609636</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 :	441009153616	Option 1 ID :	441009609635	Option 2 ID :	441009609637	Option 3 ID :	441009609634	Option 4 ID :	441009609636	Status :	Answered	Chosen Option :	4
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Question ID :	441009153616																	
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Option 2 ID :	441009609637																	
Option 3 ID :	441009609634																	
Option 4 ID :	441009609636																	
Status :	Answered																	
Chosen Option :	4																	
Q.7 9	How do we find absolute error?																	
Ans	<input type="checkbox"/> 1. Absolute error = Actual value/observed value																	
	<input type="checkbox"/> 2. Absolute error = Actual value $\times$ observed value																	
	<input type="checkbox"/> 3. Absolute error = Actual value + observed value																	
	<input checked="" type="checkbox"/> 4. Absolute error = Actual value - observed value																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153558</td></tr> <tr><td>Option 1 ID :</td><td>441009609405</td></tr> <tr><td>Option 2 ID :</td><td>441009609404</td></tr> <tr><td>Option 3 ID :</td><td>441009609403</td></tr> <tr><td>Option 4 ID :</td><td>441009609402</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 :	441009153558	Option 1 ID :	441009609405	Option 2 ID :	441009609404	Option 3 ID :	441009609403	Option 4 ID :	441009609402	Status :	Answered	Chosen Option :	4
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Question ID :	441009153558																	
Option 1 ID :	441009609405																	
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Option 3 ID :	441009609403																	
Option 4 ID :	441009609402																	
Status :	Answered																	
Chosen Option :	4																	
Q.8 0	What is the main advantage of using solar energy over fossil fuels?																	
Ans	<input type="checkbox"/> 1. Greenhouse gas emission is higher when solar energy is used.																	
	<input type="checkbox"/> 2. Solar energy extraction requires high operational cost when compared to fossil fuels.																	
	<input type="checkbox"/> 3. Solar energy requires mining and extraction, whereas fossil fuels are free of cost.																	
	<input checked="" type="checkbox"/> 4. Solar energy is abundantly available and renewable in nature.																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009158533</td></tr> <tr><td>Option 1 ID :</td><td>441009629069</td></tr> <tr><td>Option 2 ID :</td><td>441009629067</td></tr> <tr><td>Option 3 ID :</td><td>441009629070</td></tr> <tr><td>Option 4 ID :</td><td>441009629068</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 :	441009158533	Option 1 ID :	441009629069	Option 2 ID :	441009629067	Option 3 ID :	441009629070	Option 4 ID :	441009629068	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																	
Question ID :	441009158533																	
Option 1 ID :	441009629069																	
Option 2 ID :	441009629067																	
Option 3 ID :	441009629070																	
Option 4 ID :	441009629068																	
Status :	Answered																	
Chosen Option :	4																	

<p><b>Q.8</b> <b>1</b></p>	<p>Which of the following is an effective way to prevent electrical accidents in the workplace?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. Working on live wires with bare hands</p> <p><input type="checkbox"/> 2. Using water to cool overheated electrical equipment</p> <p><input checked="" type="checkbox"/> 3. Using insulated tools and wearing rubber gloves</p> <p><input type="checkbox"/> 4. Ignoring minor electrical faults</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>441009156591</td></tr> <tr><td>Option 1 ID :</td><td>441009621528</td></tr> <tr><td>Option 2 ID :</td><td>441009621530</td></tr> <tr><td>Option 3 ID :</td><td>441009621527</td></tr> <tr><td>Option 4 ID :</td><td>441009621529</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 :	441009156591	Option 1 ID :	441009621528	Option 2 ID :	441009621530	Option 3 ID :	441009621527	Option 4 ID :	441009621529	Status :	<b>Answered</b>	Chosen Option :	3
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Option 1 ID :	441009621528																	
Option 2 ID :	441009621530																	
Option 3 ID :	441009621527																	
Option 4 ID :	441009621529																	
Status :	<b>Answered</b>																	
Chosen Option :	3																	
<p><b>Q.8</b> <b>2</b></p>	<p>Which term describes the maximum amount of solar energy that a photovoltaic (PV) system can convert into electricity under standard test conditions?</p>																	
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. Nameplate capacity</p> <p><input type="checkbox"/> 2. Rated capacity</p> <p><input type="checkbox"/> 3. Effective capacity</p> <p><input type="checkbox"/> 4. Peak load</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>441009158532</td></tr> <tr><td>Option 1 ID :</td><td>441009629066</td></tr> <tr><td>Option 2 ID :</td><td>441009629063</td></tr> <tr><td>Option 3 ID :</td><td>441009629065</td></tr> <tr><td>Option 4 ID :</td><td>441009629064</td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	441009158532	Option 1 ID :	441009629066	Option 2 ID :	441009629063	Option 3 ID :	441009629065	Option 4 ID :	441009629064	Status :	<b>Answered</b>	Chosen Option :	2
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Option 2 ID :	441009629063																	
Option 3 ID :	441009629065																	
Option 4 ID :	441009629064																	
Status :	<b>Answered</b>																	
Chosen Option :	2																	
<p><b>Q.8</b> <b>3</b></p>	<p>Aditya is using two thin blankets instead of one thick blanket in winter to keep himself warm because _____.</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. the friction between the two blankets produces heat</p> <p><input checked="" type="checkbox"/> 2. the air trapped between the blankets is a poor conductor of heat</p> <p><input type="checkbox"/> 3. the blankets are at a higher temperature than the surroundings</p> <p><input type="checkbox"/> 4. two blankets are cheaper than one thick blanket</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>441009154516</td></tr> <tr><td>Option 1 ID :</td><td>441009613228</td></tr> <tr><td>Option 2 ID :</td><td>441009613227</td></tr> <tr><td>Option 3 ID :</td><td>441009613229</td></tr> <tr><td>Option 4 ID :</td><td>441009613226</td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	441009154516	Option 1 ID :	441009613228	Option 2 ID :	441009613227	Option 3 ID :	441009613229	Option 4 ID :	441009613226	Status :	<b>Answered</b>	Chosen Option :	2
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Option 3 ID :	441009613229																	
Option 4 ID :	441009613226																	
Status :	<b>Answered</b>																	
Chosen Option :	2																	

<p><b>Q.8</b></p> <p><b>4</b></p>	<p>In a certain code language, 'BORE' is coded as '8624' and 'TABS' is coded as '3217'. What is the code for 'B' in the given code language?</p>																		
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 7</p> <p><input type="checkbox"/> 2. 1</p> <p><input checked="" type="checkbox"/> 3. 2</p> <p><input type="checkbox"/> 4. 8</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>441009155624</td></tr> <tr><td>Option 1 ID :</td><td>441009617665</td></tr> <tr><td>Option 2 ID :</td><td>441009617664</td></tr> <tr><td>Option 3 ID :</td><td>441009617663</td></tr> <tr><td>Option 4 ID :</td><td>441009617666</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 :	441009155624	Option 1 ID :	441009617665	Option 2 ID :	441009617664	Option 3 ID :	441009617663	Option 4 ID :	441009617666	Status :	Answered	Chosen Option :	3
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Option 3 ID :	441009617663																		
Option 4 ID :	441009617666																		
Status :	Answered																		
Chosen Option :	3																		
<p><b>Q.8</b></p> <p><b>5</b></p>	<p>Two trains of lengths 155 m and 160 m are running at speeds of 74 km/hr and 52 km/hr, respectively, on parallel tracks in opposite directions. In how many seconds will they pass each other?</p>																		
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. 9 seconds</p> <p><input type="checkbox"/> 2. 14 seconds</p> <p><input type="checkbox"/> 3. 7 seconds</p> <p><input type="checkbox"/> 4. 18 seconds</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>441009153640</td></tr> <tr><td>Option 1 ID :</td><td>441009609733</td></tr> <tr><td>Option 2 ID :</td><td>441009609732</td></tr> <tr><td>Option 3 ID :</td><td>441009609731</td></tr> <tr><td>Option 4 ID :</td><td>441009609730</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 :	441009153640	Option 1 ID :	441009609733	Option 2 ID :	441009609732	Option 3 ID :	441009609731	Option 4 ID :	441009609730	Status :	Answered	Chosen Option :	1
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Option 1 ID :	441009609733																		
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Option 3 ID :	441009609731																		
Option 4 ID :	441009609730																		
Status :	Answered																		
Chosen Option :	1																		
<p><b>Q.8</b></p> <p><b>6</b></p>	<p>In winters, people wear jacket because _____.</p>																		
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. it looks good</p> <p><input type="checkbox"/> 2. fabric of jacket is a conductor of heat so it traps body heat</p> <p><input checked="" type="checkbox"/> 3. fabric of jacket is an insulator of heat so it traps body heat</p> <p><input type="checkbox"/> 4. jacket allows the heat to flow from our body to surroundings</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>441009154519</td></tr> <tr><td>Option 1 ID :</td><td>441009613238</td></tr> <tr><td>Option 2 ID :</td><td>441009613239</td></tr> <tr><td>Option 3 ID :</td><td>441009613240</td></tr> <tr><td>Option 4 ID :</td><td>441009613241</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 :	441009154519	Option 1 ID :	441009613238	Option 2 ID :	441009613239	Option 3 ID :	441009613240	Option 4 ID :	441009613241	Status :	Answered	Chosen Option :	3
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Option 3 ID :	441009613240																		
Option 4 ID :	441009613241																		
Status :	Answered																		
Chosen Option :	3																		

<p><b>Q.8</b> 7</p>	<p>Akshay gets 2% increase in his sale amount in the first year and 25% in the second year. With that his present sale is ₹1,42,800. What was his sale (in ₹) two years ago?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. 1,14,240</p> <p><input type="checkbox"/> 2. 92,000</p> <p><input type="checkbox"/> 3. 1,40,000</p> <p><input checked="" type="checkbox"/> 4. 1,12,000</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>441009153618</td></tr> <tr><td>Option 1 ID :</td><td>441009609643</td></tr> <tr><td>Option 2 ID :</td><td>441009609645</td></tr> <tr><td>Option 3 ID :</td><td>441009609644</td></tr> <tr><td>Option 4 ID :</td><td>441009609642</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 :	441009153618	Option 1 ID :	441009609643	Option 2 ID :	441009609645	Option 3 ID :	441009609644	Option 4 ID :	441009609642	Status :	Answered	Chosen Option :	4
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Question ID :	441009153618																	
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Option 4 ID :	441009609642																	
Status :	Answered																	
Chosen Option :	4																	
<p><b>Q.8</b> 8</p>	<p>What is the scientific notation for 55,60,000 km?</p>																	
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. <math>5.56 \times 10^6</math> km</p> <p><input type="checkbox"/> 2. <math>5.56 \times 10^4</math> km</p> <p><input type="checkbox"/> 3. <math>55.6 \times 10^4</math> km</p> <p><input type="checkbox"/> 4. <math>556 \times 10^6</math> km</p>																	
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Question ID :	441009153560																	
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Option 2 ID :	441009609413																	
Option 3 ID :	441009609412																	
Option 4 ID :	441009609411																	
Status :	Answered																	
Chosen Option :	1																	
<p><b>Q.8</b> 9</p>	<p>Two containers, one painted black and the other painted white, have been kept in sunlight for one hour in the afternoon. Choose the correct observation.</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. There is no effect on either container.</p> <p><input type="checkbox"/> 2. The white container becomes hotter than the black container.</p> <p><input checked="" type="checkbox"/> 3. The black container becomes hotter than the white container.</p> <p><input type="checkbox"/> 4. Both containers become equally hot.</p>																	
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Option 3 ID :	441009613222																	
Option 4 ID :	441009613224																	
Status :	Answered																	
Chosen Option :	3																	

**Q.9** The energy possessed by an object by virtue of its motion is known as \_\_\_\_\_.

**0**

**Ans**  1. kinetic energy

2. potential energy

3. heat energy

4. light energy

Question Type :	MCQ
Question ID :	441009153499
Option 1 ID :	441009609169
Option 2 ID :	441009609168
Option 3 ID :	441009609167
Option 4 ID :	441009609166
Status :	Answered
Chosen Option :	1

**Q.9** 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.)

4 – 8 – 18 – 9  
6 – 12 – 22 – 11

**Ans**  1. 8 – 16 – 26 – 13

2. 3 – 15 – 12 – 20

3. 9 – 18 – 28 – 20

4. 11 – 13 – 22 – 63

Question Type :	MCQ
Question ID :	441009155600
Option 1 ID :	441009617569
Option 2 ID :	441009617567
Option 3 ID :	441009617570
Option 4 ID :	441009617568
Status :	Answered
Chosen Option :	1

<p><b>Q.9</b> Which of the following is the temperature range in a clinical thermometer? 2</p> <p><b>Ans</b> <input type="checkbox"/> 1. 30°C to 43°C  <input checked="" type="checkbox"/> 2. 35°C to 42°C  <input type="checkbox"/> 3. 10°C to 45°C  <input type="checkbox"/> 4. 31°C to 44°C</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154527</td></tr> <tr><td>Option 1 ID :</td><td>441009613272</td></tr> <tr><td>Option 2 ID :</td><td>441009613270</td></tr> <tr><td>Option 3 ID :</td><td>441009613271</td></tr> <tr><td>Option 4 ID :</td><td>441009613273</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 :	441009154527	Option 1 ID :	441009613272	Option 2 ID :	441009613270	Option 3 ID :	441009613271	Option 4 ID :	441009613273	Status :	Not Answered	Chosen Option :	--
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Option 2 ID :	441009613270																
Option 3 ID :	441009613271																
Option 4 ID :	441009613273																
Status :	Not Answered																
Chosen Option :	--																
<p><b>Q.9</b> Which of the following groups represents conductors of heat? 3</p> <p><b>Ans</b> <input type="checkbox"/> 1. Wood, paper, silver  <input type="checkbox"/> 2. Paper, copper, plastic  <input checked="" type="checkbox"/> 3. Aluminium, silver, copper  <input type="checkbox"/> 4. Aluminium, plastic, wood</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154521</td></tr> <tr><td>Option 1 ID :</td><td>441009613246</td></tr> <tr><td>Option 2 ID :</td><td>441009613249</td></tr> <tr><td>Option 3 ID :</td><td>441009613248</td></tr> <tr><td>Option 4 ID :</td><td>441009613247</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 :	441009154521	Option 1 ID :	441009613246	Option 2 ID :	441009613249	Option 3 ID :	441009613248	Option 4 ID :	441009613247	Status :	Answered	Chosen Option :	3
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Option 2 ID :	441009613249																
Option 3 ID :	441009613248																
Option 4 ID :	441009613247																
Status :	Answered																
Chosen Option :	3																
<p><b>Q.9</b> Select the triad that follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern. 4</p> <p>JK - LM - NO TU - VW - XY</p> <p><b>Ans</b> <input checked="" type="checkbox"/> 1. DE - FG - HI  <input type="checkbox"/> 2. DE - FG - KL  <input type="checkbox"/> 3. WE - DF - HI  <input type="checkbox"/> 4. DE - FB - DF</p>	<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155650</td></tr> <tr><td>Option 1 ID :</td><td>441009617767</td></tr> <tr><td>Option 2 ID :</td><td>441009617768</td></tr> <tr><td>Option 3 ID :</td><td>441009617770</td></tr> <tr><td>Option 4 ID :</td><td>441009617769</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 :	441009155650	Option 1 ID :	441009617767	Option 2 ID :	441009617768	Option 3 ID :	441009617770	Option 4 ID :	441009617769	Status :	Answered	Chosen Option :	1
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Option 2 ID :	441009617768																
Option 3 ID :	441009617770																
Option 4 ID :	441009617769																
Status :	Answered																
Chosen Option :	1																

Q.9 5	In Engineering Drawing, principal lines are drawn to represent _____.																
Ans	<input checked="" type="checkbox"/> 1. interior or hidden edges <input checked="" type="checkbox"/> 2. axes of cylindrical, conical or spherical objects <input checked="" type="checkbox"/> 3. visible edges and surface boundaries of objects <input checked="" type="checkbox"/> 4. wide lines along which the prints are trimmed																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156542</td></tr> <tr><td>Option 1 ID :</td><td>441009621333</td></tr> <tr><td>Option 2 ID :</td><td>441009621334</td></tr> <tr><td>Option 3 ID :</td><td>441009621331</td></tr> <tr><td>Option 4 ID :</td><td>441009621332</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 :	441009156542	Option 1 ID :	441009621333	Option 2 ID :	441009621334	Option 3 ID :	441009621331	Option 4 ID :	441009621332	Status :	Not Answered	Chosen Option :	--
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Option 2 ID :	441009621334																
Option 3 ID :	441009621331																
Option 4 ID :	441009621332																
Status :	Not Answered																
Chosen Option :	--																
Q.9 6	A fruit seller had some apples. He sells 40% of the apples and now has 900 apples. How many apples did he originally have?																
Ans	<input checked="" type="checkbox"/> 1. 1800 <input checked="" type="checkbox"/> 2. 2250 <input checked="" type="checkbox"/> 3. 1500 <input checked="" type="checkbox"/> 4. 1350																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009153626</td></tr> <tr><td>Option 1 ID :</td><td>441009609677</td></tr> <tr><td>Option 2 ID :</td><td>441009609675</td></tr> <tr><td>Option 3 ID :</td><td>441009609674</td></tr> <tr><td>Option 4 ID :</td><td>441009609676</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 :	441009153626	Option 1 ID :	441009609677	Option 2 ID :	441009609675	Option 3 ID :	441009609674	Option 4 ID :	441009609676	Status :	Answered	Chosen Option :	3
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Question ID :	441009153626																
Option 1 ID :	441009609677																
Option 2 ID :	441009609675																
Option 3 ID :	441009609674																
Option 4 ID :	441009609676																
Status :	Answered																
Chosen Option :	3																
Q.9 7	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 pair.)																
Ans	<input checked="" type="checkbox"/> 1. SA – WQ <input checked="" type="checkbox"/> 2. WE – AU <input checked="" type="checkbox"/> 3. DL – HB <input checked="" type="checkbox"/> 4. MU – QL																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009155644</td></tr> <tr><td>Option 1 ID :</td><td>441009617746</td></tr> <tr><td>Option 2 ID :</td><td>441009617743</td></tr> <tr><td>Option 3 ID :</td><td>441009617745</td></tr> <tr><td>Option 4 ID :</td><td>441009617744</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 :	441009155644	Option 1 ID :	441009617746	Option 2 ID :	441009617743	Option 3 ID :	441009617745	Option 4 ID :	441009617744	Status :	Answered	Chosen Option :	4
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Option 2 ID :	441009617743																
Option 3 ID :	441009617745																
Option 4 ID :	441009617744																
Status :	Answered																
Chosen Option :	4																

<p><b>Q.9</b> 8</p>	<p>Which of the following represents an item with kinetic energy?</p>																	
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. An extended rubber band</p> <p><input checked="" type="checkbox"/> 2. A stone in motion</p> <p><input checked="" type="checkbox"/> 3. A book resting on a table</p> <p><input checked="" type="checkbox"/> 4. A compressed spring</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>441009160695</td></tr> <tr><td>Option 1 ID :</td><td>441009636566</td></tr> <tr><td>Option 2 ID :</td><td>441009636567</td></tr> <tr><td>Option 3 ID :</td><td>441009636565</td></tr> <tr><td>Option 4 ID :</td><td>441009636568</td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td>2</td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	441009160695	Option 1 ID :	441009636566	Option 2 ID :	441009636567	Option 3 ID :	441009636565	Option 4 ID :	441009636568	Status :	<b>Answered</b>	Chosen Option :	2
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Option 2 ID :	441009636567																	
Option 3 ID :	441009636565																	
Option 4 ID :	441009636568																	
Status :	<b>Answered</b>																	
Chosen Option :	2																	
<p><b>Q.9</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 checked="" type="checkbox"/> 1. Brother's wife's brother</p> <p><input checked="" type="checkbox"/> 2. Brother's wife's father</p> <p><input checked="" type="checkbox"/> 3. Brother's wife's father's brother</p> <p><input checked="" type="checkbox"/> 4. Brother's wife's father's father</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>441009155668</td></tr> <tr><td>Option 1 ID :</td><td>441009617839</td></tr> <tr><td>Option 2 ID :</td><td>441009617840</td></tr> <tr><td>Option 3 ID :</td><td>441009617841</td></tr> <tr><td>Option 4 ID :</td><td>441009617842</td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	441009155668	Option 1 ID :	441009617839	Option 2 ID :	441009617840	Option 3 ID :	441009617841	Option 4 ID :	441009617842	Status :	<b>Answered</b>	Chosen Option :	1
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Option 2 ID :	441009617840																	
Option 3 ID :	441009617841																	
Option 4 ID :	441009617842																	
Status :	<b>Answered</b>																	
Chosen Option :	1																	

**Q.1** A person saves 50% of his income. If his expenditure is ₹640, then his income (in ₹) is:

**Ans**  1. 600  
 2. 1,320  
 3. 560  
 4. 1,280

Question Type :	MCQ
Question ID :	441009153622
Option 1 ID :	441009609659
Option 2 ID :	441009609661
Option 3 ID :	441009609660
Option 4 ID :	441009609658
Status :	Answered
Chosen Option :	4

Section : PART-B

**Q.1** What is the function of a half-wave rectifier in a power supply?

**Ans**  1. To convert AC voltage to DC voltage  
 2. To regulate the output voltage  
 3. To amplify the output voltage  
 4. To filter the output voltage

Question Type :	MCQ
Question ID :	441009240534
Option 1 ID :	441009940283
Option 2 ID :	441009940282
Option 3 ID :	441009940284
Option 4 ID :	441009940285
Status :	Answered
Chosen Option :	1

**Q.2** In a JK flip-flop, if  $J = 0$ ,  $K = 1$  and the current state is  $Q = 1$ , what will be the next output after one clock pulse?

**Ans**  1. Q will remain 1; Q' will remain 0  
 2. Q will toggle to 0; Q' will toggle to 1  
 3. Q will be reset to 0; Q' will be set to 1  
 4. The output will be undefined.

Question Type :	MCQ
Question ID :	441009154733
Option 1 ID :	441009614086
Option 2 ID :	441009614088
Option 3 ID :	441009614087
Option 4 ID :	441009614089
Status :	Not Answered
Chosen Option :	--

<b>Q.3</b>	<b>What is the effect of temperature changes on the frequency stability of a crystal oscillator?</b>																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. The frequency stability is affected by temperature changes, but the effect is negligible. <input checked="" type="checkbox"/> 2. The frequency stability increases with increasing temperature. <input checked="" type="checkbox"/> 3. The frequency stability decreases with increasing temperature. <input checked="" type="checkbox"/> 4. The frequency stability remains constant with changing temperature.																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td><b>441009240510</b></td></tr> <tr><td>Option 1 ID :</td><td><b>441009940189</b></td></tr> <tr><td>Option 2 ID :</td><td><b>441009940187</b></td></tr> <tr><td>Option 3 ID :</td><td><b>441009940186</b></td></tr> <tr><td>Option 4 ID :</td><td><b>441009940188</b></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 :	<b>441009240510</b>	Option 1 ID :	<b>441009940189</b>	Option 2 ID :	<b>441009940187</b>	Option 3 ID :	<b>441009940186</b>	Option 4 ID :	<b>441009940188</b>	Status :	<b>Not Answered</b>	Chosen Option :	--
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Option 2 ID :	<b>441009940187</b>																
Option 3 ID :	<b>441009940186</b>																
Option 4 ID :	<b>441009940188</b>																
Status :	<b>Not Answered</b>																
Chosen Option :	--																
<b>Q.4</b>	<b>How can you extend a half adder to handle multi-bit binary addition?</b>																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. By using multiple half adders in series <input checked="" type="checkbox"/> 2. By cascading half adders with carry propagation <input checked="" type="checkbox"/> 3. By combining half adders and full adders <input checked="" type="checkbox"/> 4. By adding more XOR gates																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td><b>441009154744</b></td></tr> <tr><td>Option 1 ID :</td><td><b>441009614131</b></td></tr> <tr><td>Option 2 ID :</td><td><b>441009614132</b></td></tr> <tr><td>Option 3 ID :</td><td><b>441009614133</b></td></tr> <tr><td>Option 4 ID :</td><td><b>441009614130</b></td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td><b>1</b></td></tr> </table>		Question Type :	<b>MCQ</b>	Question ID :	<b>441009154744</b>	Option 1 ID :	<b>441009614131</b>	Option 2 ID :	<b>441009614132</b>	Option 3 ID :	<b>441009614133</b>	Option 4 ID :	<b>441009614130</b>	Status :	<b>Answered</b>	Chosen Option :	<b>1</b>
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Option 4 ID :	<b>441009614130</b>																
Status :	<b>Answered</b>																
Chosen Option :	<b>1</b>																
<b>Q.5</b>	<b>Why do cars have treaded tyres?</b>																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. To decrease friction <input checked="" type="checkbox"/> 2. To increase speed <input checked="" type="checkbox"/> 3. To reduce weight <input checked="" type="checkbox"/> 4. To increase friction and grip on the road																
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Option 3 ID :	<b>441009621759</b>																
Option 4 ID :	<b>441009621760</b>																
Status :	<b>Answered</b>																
Chosen Option :	<b>4</b>																

<b>Q.6</b>	What is the output of an RS flip-flop when Set = 0 and Reset = 0?																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. No change in output <input type="checkbox"/> 2. Q = 0, Q' = 1 <input type="checkbox"/> 3. Q = 1, Q' = 0 <input type="checkbox"/> 4. Invalid state																
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Option 1 ID :	441009614100																
Option 2 ID :	441009614099																
Option 3 ID :	441009614098																
Option 4 ID :	441009614101																
Status :	Answered																
Chosen Option :	1																
<b>Q.7</b>	A 200 V voltmeter has an internal resistance of 20 kΩ. To extend its range to 1,000 V, what should be the value of the series multiplier resistance?																
<b>Ans</b>	<input type="checkbox"/> 1. 200 kΩ <input checked="" type="checkbox"/> 2. 80 kΩ <input type="checkbox"/> 3. 120 kΩ <input type="checkbox"/> 4. 100 kΩ																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154787</td></tr> <tr><td>Option 1 ID :</td><td>441009614305</td></tr> <tr><td>Option 2 ID :</td><td>441009614302</td></tr> <tr><td>Option 3 ID :</td><td>441009614304</td></tr> <tr><td>Option 4 ID :</td><td>441009614303</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 :	441009154787	Option 1 ID :	441009614305	Option 2 ID :	441009614302	Option 3 ID :	441009614304	Option 4 ID :	441009614303	Status :	Answered	Chosen Option :	4
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Option 3 ID :	441009614304																
Option 4 ID :	441009614303																
Status :	Answered																
Chosen Option :	4																
<b>Q.8</b>	What is the impact of using a buffered parallel I/O port compared to a non-buffered one in terms of data transfer speed and reliability?																
<b>Ans</b>	<input type="checkbox"/> 1. Buffered I/O ports only work in unidirectional data transfer applications. <input type="checkbox"/> 2. Buffered I/O ports are slower but more reliable. <input type="checkbox"/> 3. Non-buffered I/O ports are faster but less reliable. <input checked="" type="checkbox"/> 4. Buffered I/O ports provide faster data transfer with a lower risk of data loss or corruption.																
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Question ID :	441009154677																
Option 1 ID :	441009613865																
Option 2 ID :	441009613862																
Option 3 ID :	441009613864																
Option 4 ID :	441009613863																
Status :	Not Answered																
Chosen Option :	--																

**Q.9** Which type of circuit is used to convert both the half-cycles of an AC waveform into a pulsating DC waveform?

**Ans**  1. Clippers circuit  
 2. Clamper circuit  
 3. Half-wave rectifier  
 4. Full-wave rectifier

Question Type :	MCQ
Question ID :	441009240532
Option 1 ID :	441009940277
Option 2 ID :	441009940276
Option 3 ID :	441009940274
Option 4 ID :	441009940275
Status :	Answered
Chosen Option :	4

**Q.10** A statement and conclusion for pictorial drawing are given below. Determine the logical relationship between them.

**Statement:** Pictorial drawings are three-dimensional and provide a visual representation of an object.

**Conclusion:** Therefore, pictorial drawings are useful for describing the shape of a piece part or component.

**Ans**  1. The conclusion does not logically follow from the statement.  
 2. The conclusion is partially supported by the statement.  
 3. The conclusion logically follows from the statement.  
 4. The conclusion is unrelated to the statement.

Question Type :	MCQ
Question ID :	441009156561
Option 1 ID :	441009621408
Option 2 ID :	441009621409
Option 3 ID :	441009621407
Option 4 ID :	441009621410
Status :	Answered
Chosen Option :	1

Q.1 1	What will happen if resistance is measured in a powered circuit?																	
Ans	<input checked="" type="checkbox"/> 1. The resistance value will be higher than expected. <input checked="" type="checkbox"/> 2. The multimeter may get damaged. <input checked="" type="checkbox"/> 3. The reading will be accurate. <input checked="" type="checkbox"/> 4. The test leads will heat up.																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154780</td></tr> <tr><td>Option 1 ID :</td><td>441009614276</td></tr> <tr><td>Option 2 ID :</td><td>441009614275</td></tr> <tr><td>Option 3 ID :</td><td>441009614274</td></tr> <tr><td>Option 4 ID :</td><td>441009614277</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 :	441009154780	Option 1 ID :	441009614276	Option 2 ID :	441009614275	Option 3 ID :	441009614274	Option 4 ID :	441009614277	Status :	Not Answered	Chosen Option :	--
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Question ID :	441009154780																	
Option 1 ID :	441009614276																	
Option 2 ID :	441009614275																	
Option 3 ID :	441009614274																	
Option 4 ID :	441009614277																	
Status :	Not Answered																	
Chosen Option :	--																	
Q.1 2	In a logic circuit, three SPST (Single Pole Single Throw) switches are used to implement a logic gate. The switches are connected in series. What is the output of the circuit if all switches are closed?																	
Ans	<input checked="" type="checkbox"/> 1. The output will depend on the type of gate used <input checked="" type="checkbox"/> 2. 1 <input checked="" type="checkbox"/> 3. 0 <input checked="" type="checkbox"/> 4. Undefined																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156516</td></tr> <tr><td>Option 1 ID :</td><td>441009621230</td></tr> <tr><td>Option 2 ID :</td><td>441009621227</td></tr> <tr><td>Option 3 ID :</td><td>441009621228</td></tr> <tr><td>Option 4 ID :</td><td>441009621229</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 :	441009156516	Option 1 ID :	441009621230	Option 2 ID :	441009621227	Option 3 ID :	441009621228	Option 4 ID :	441009621229	Status :	Answered	Chosen Option :	2
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Question ID :	441009156516																	
Option 1 ID :	441009621230																	
Option 2 ID :	441009621227																	
Option 3 ID :	441009621228																	
Option 4 ID :	441009621229																	
Status :	Answered																	
Chosen Option :	2																	
Q.1 3	What is the main advantage of using a crystal oscillator over an RC oscillator?																	
Ans	<input checked="" type="checkbox"/> 1. Lower frequency stability <input checked="" type="checkbox"/> 2. Higher output amplitude <input checked="" type="checkbox"/> 3. Higher frequency stability <input checked="" type="checkbox"/> 4. Lower output amplitude																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009240512</td></tr> <tr><td>Option 1 ID :</td><td>441009940195</td></tr> <tr><td>Option 2 ID :</td><td>441009940196</td></tr> <tr><td>Option 3 ID :</td><td>441009940194</td></tr> <tr><td>Option 4 ID :</td><td>441009940197</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 :	441009240512	Option 1 ID :	441009940195	Option 2 ID :	441009940196	Option 3 ID :	441009940194	Option 4 ID :	441009940197	Status :	Answered	Chosen Option :	3
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Option 2 ID :	441009940196																	
Option 3 ID :	441009940194																	
Option 4 ID :	441009940197																	
Status :	Answered																	
Chosen Option :	3																	

Q.1 4	Which option shows the correct answer when 27°C is converted to the kelvin scale?																
Ans	<input checked="" type="checkbox"/> 1. - 246 K <input checked="" type="checkbox"/> 2. - 300 K <input checked="" type="checkbox"/> 3. 246 K <input checked="" type="checkbox"/> 4. 300 K																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156653</td></tr> <tr><td>Option 1 ID :</td><td>441009621777</td></tr> <tr><td>Option 2 ID :</td><td>441009621775</td></tr> <tr><td>Option 3 ID :</td><td>441009621776</td></tr> <tr><td>Option 4 ID :</td><td>441009621778</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 :	441009156653	Option 1 ID :	441009621777	Option 2 ID :	441009621775	Option 3 ID :	441009621776	Option 4 ID :	441009621778	Status :	Answered	Chosen Option :	4
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Option 1 ID :	441009621777																
Option 2 ID :	441009621775																
Option 3 ID :	441009621776																
Option 4 ID :	441009621778																
Status :	Answered																
Chosen Option :	4																
Q.1 5	What is the working principle of an analogue vibrating reed frequency meter?																
Ans	<input checked="" type="checkbox"/> 1. Electromagnetic resonance <input checked="" type="checkbox"/> 2. Piezoelectric effect <input checked="" type="checkbox"/> 3. Thermal expansion <input checked="" type="checkbox"/> 4. Electrostatic attraction																
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Option 1 ID :	441009614266																
Option 2 ID :	441009614269																
Option 3 ID :	441009614268																
Option 4 ID :	441009614267																
Status :	Answered																
Chosen Option :	1																
Q.1 6	Which of the following actions is a part of the emergency response team's responsibilities during an active emergency?																
Ans	<input checked="" type="checkbox"/> 1. Preparing reports on emergency incidents <input checked="" type="checkbox"/> 2. Conducting routine safety checks <input checked="" type="checkbox"/> 3. Rescuing persons in immediate danger <input checked="" type="checkbox"/> 4. Scheduling regular evacuation drills																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156603</td></tr> <tr><td>Option 1 ID :</td><td>441009621578</td></tr> <tr><td>Option 2 ID :</td><td>441009621575</td></tr> <tr><td>Option 3 ID :</td><td>441009621576</td></tr> <tr><td>Option 4 ID :</td><td>441009621577</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 :	441009156603	Option 1 ID :	441009621578	Option 2 ID :	441009621575	Option 3 ID :	441009621576	Option 4 ID :	441009621577	Status :	Answered	Chosen Option :	3
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Option 2 ID :	441009621575																
Option 3 ID :	441009621576																
Option 4 ID :	441009621577																
Status :	Answered																
Chosen Option :	3																

**Q.1**  
7 Which of the following statements is/are true about Non-Functional Dimensions (NF) in engineering drawing?

Statement 1: Non-functional Dimensions are shown without limits, as they do not affect the functionality of the component or space.  
Statement 2: Non-Functional Dimensions are typically used for reference purposes only, and do not impact the assembly or performance of the component or space.

- Ans**
- 1. Neither statement is true
  - 2. Only statement 1 is true
  - 3. Only statement 2 is true
  - 4. Both statements are true

Question Type :	MCQ
Question ID :	441009156567
Option 1 ID :	441009621434
Option 2 ID :	441009621431
Option 3 ID :	441009621432
Option 4 ID :	441009621433
Status :	Not Answered
Chosen Option :	--

**Q.1**  
8 Which of the following is the size of the internal RAM in the 'Standard 8051' microcontroller?

- Ans**
- 1. 128 bytes
  - 2. 512 bytes
  - 3. 1 kilo bytes
  - 4. 256 bytes

Question Type :	MCQ
Question ID :	441009154676
Option 1 ID :	441009613860
Option 2 ID :	441009613858
Option 3 ID :	441009613861
Option 4 ID :	441009613859
Status :	Answered
Chosen Option :	1

**Q.1**  
9 What is the purpose of the feedback network in an oscillator circuit?

- Ans**
- 1. To provide impedance matching
  - 2. To provide a stable output voltage
  - 3. To provide positive feedback to sustain oscillations
  - 4. To filter out unwanted frequencies

Question Type :	MCQ
Question ID :	441009240515
Option 1 ID :	441009940208
Option 2 ID :	441009940206
Option 3 ID :	441009940209
Option 4 ID :	441009940207
Status :	Answered
Chosen Option :	3

Q.2 0	Which of the following is INCORRECT about line standard?																
Ans	<input checked="" type="checkbox"/> 1. Quick measurements over a wide range <input checked="" type="checkbox"/> 2. More accurate due to line thickness <input checked="" type="checkbox"/> 3. Subject to parallax error <input checked="" type="checkbox"/> 4. Used to measure the distance between two engraved lines																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156627</td></tr> <tr><td>Option 1 ID :</td><td>441009621673</td></tr> <tr><td>Option 2 ID :</td><td>441009621672</td></tr> <tr><td>Option 3 ID :</td><td>441009621674</td></tr> <tr><td>Option 4 ID :</td><td>441009621671</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 :	441009156627	Option 1 ID :	441009621673	Option 2 ID :	441009621672	Option 3 ID :	441009621674	Option 4 ID :	441009621671	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																
Question ID :	441009156627																
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Option 2 ID :	441009621672																
Option 3 ID :	441009621674																
Option 4 ID :	441009621671																
Status :	Not Answered																
Chosen Option :	--																
Q.2 1	How much is the energy gap between the valence band and conduction band of silicon (Si)?																
Ans	<input checked="" type="checkbox"/> 1. 0.5 eV <input checked="" type="checkbox"/> 2. 2.5 eV <input checked="" type="checkbox"/> 3. 3.5 eV <input checked="" type="checkbox"/> 4. 1.1 eV																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009240539</td></tr> <tr><td>Option 1 ID :</td><td>441009940302</td></tr> <tr><td>Option 2 ID :</td><td>441009940304</td></tr> <tr><td>Option 3 ID :</td><td>441009940305</td></tr> <tr><td>Option 4 ID :</td><td>441009940303</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 :	441009240539	Option 1 ID :	441009940302	Option 2 ID :	441009940304	Option 3 ID :	441009940305	Option 4 ID :	441009940303	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																
Question ID :	441009240539																
Option 1 ID :	441009940302																
Option 2 ID :	441009940304																
Option 3 ID :	441009940305																
Option 4 ID :	441009940303																
Status :	Answered																
Chosen Option :	4																
Q.2 2	Which of the following care and maintenance of a marking table is INCORRECT?																
Ans	<input checked="" type="checkbox"/> 1. The marking table should be protected from damage. <input checked="" type="checkbox"/> 2. The surface of the marking table should not be given a thin layer of oil. <input checked="" type="checkbox"/> 3. After use, the marking table should be cleaned with a soft cloth. <input checked="" type="checkbox"/> 4. The marking table should be protected from rust.																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156628</td></tr> <tr><td>Option 1 ID :</td><td>441009621675</td></tr> <tr><td>Option 2 ID :</td><td>441009621677</td></tr> <tr><td>Option 3 ID :</td><td>441009621676</td></tr> <tr><td>Option 4 ID :</td><td>441009621678</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 :	441009156628	Option 1 ID :	441009621675	Option 2 ID :	441009621677	Option 3 ID :	441009621676	Option 4 ID :	441009621678	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																
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Option 1 ID :	441009621675																
Option 2 ID :	441009621677																
Option 3 ID :	441009621676																
Option 4 ID :	441009621678																
Status :	Not Answered																
Chosen Option :	--																

<p><b>Q.2</b> 3</p>	<p>The given equation represents the relationship between temperature and resistance of an RTD.</p> $R_t = R_{ref}(1 + \alpha \Delta t)$ <p>What does <math>\Delta t</math> represent?</p>																	
<p>Ans</p>	<p><input type="checkbox"/> 1. Difference between operating and environmental temperature</p> <p><input type="checkbox"/> 2. Operating temperature</p> <p><input checked="" type="checkbox"/> 3. Difference between operating and reference temperature</p> <p><input type="checkbox"/> 4. Reference temperature</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>441009154726</td></tr> <tr><td>Option 1 ID :</td><td>441009614060</td></tr> <tr><td>Option 2 ID :</td><td>441009614058</td></tr> <tr><td>Option 3 ID :</td><td>441009614061</td></tr> <tr><td>Option 4 ID :</td><td>441009614059</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 :	441009154726	Option 1 ID :	441009614060	Option 2 ID :	441009614058	Option 3 ID :	441009614061	Option 4 ID :	441009614059	Status :	Answered	Chosen Option :	3
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Option 4 ID :	441009614059																	
Status :	Answered																	
Chosen Option :	3																	
<p><b>Q.2</b> 4</p>	<p>A rectangular floor measuring 10 m × 8 m is to be tiled. If each tile covers 0.25 m<sup>2</sup>, how many tiles are needed?</p>																	
<p>Ans</p>	<p><input type="checkbox"/> 1. 200</p> <p><input type="checkbox"/> 2. 250</p> <p><input type="checkbox"/> 3. 300</p> <p><input checked="" type="checkbox"/> 4. 320</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>441009156654</td></tr> <tr><td>Option 1 ID :</td><td>441009621779</td></tr> <tr><td>Option 2 ID :</td><td>441009621780</td></tr> <tr><td>Option 3 ID :</td><td>441009621781</td></tr> <tr><td>Option 4 ID :</td><td>441009621782</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 :	441009156654	Option 1 ID :	441009621779	Option 2 ID :	441009621780	Option 3 ID :	441009621781	Option 4 ID :	441009621782	Status :	Answered	Chosen Option :	4
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Question ID :	441009156654																	
Option 1 ID :	441009621779																	
Option 2 ID :	441009621780																	
Option 3 ID :	441009621781																	
Option 4 ID :	441009621782																	
Status :	Answered																	
Chosen Option :	4																	
<p><b>Q.2</b> 5</p>	<p>What is the typical output of a Zero Crossing Detector using an op-amp if the input applied is a sinusoidal ac signal?</p>																	
<p>Ans</p>	<p><input type="checkbox"/> 1. A trapezoidal wave</p> <p><input type="checkbox"/> 2. A triangular wave</p> <p><input checked="" type="checkbox"/> 3. A square wave</p> <p><input type="checkbox"/> 4. A sinusoidal wave</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>441009154701</td></tr> <tr><td>Option 1 ID :</td><td>441009613961</td></tr> <tr><td>Option 2 ID :</td><td>441009613960</td></tr> <tr><td>Option 3 ID :</td><td>441009613959</td></tr> <tr><td>Option 4 ID :</td><td>441009613958</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 :	441009154701	Option 1 ID :	441009613961	Option 2 ID :	441009613960	Option 3 ID :	441009613959	Option 4 ID :	441009613958	Status :	Not Answered	Chosen Option :	--
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Option 2 ID :	441009613960																	
Option 3 ID :	441009613959																	
Option 4 ID :	441009613958																	
Status :	Not Answered																	
Chosen Option :	--																	

<p><b>Q.2</b> 6</p>	<p>_____ recommend(s) 20 mm wide margins for sheet sizes AO and A1 in engineering drawings.</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. Borders and frames: SP: 46 (2003)</p> <p><input type="checkbox"/> 2. Custom grids</p> <p><input type="checkbox"/> 3. Geographic coordinate systems</p> <p><input type="checkbox"/> 4. Grid reference system</p>																
<table border="1" style="border-collapse: collapse; width: 250px;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td>441009156544</td></tr> <tr><td>Option 1 ID :</td><td>441009621340</td></tr> <tr><td>Option 2 ID :</td><td>441009621341</td></tr> <tr><td>Option 3 ID :</td><td>441009621342</td></tr> <tr><td>Option 4 ID :</td><td>441009621339</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 :	441009156544	Option 1 ID :	441009621340	Option 2 ID :	441009621341	Option 3 ID :	441009621342	Option 4 ID :	441009621339	Status :	<b>Answered</b>	Chosen Option :	4
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Option 3 ID :	441009621342																
Option 4 ID :	441009621339																
Status :	<b>Answered</b>																
Chosen Option :	4																
<p><b>Q.2</b> 7</p>	<p>What is the primary function of the Program Status Word (PSW) SFR in the 8051?</p>																
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. To control the timer modes</p> <p><input type="checkbox"/> 2. To store the address of the next instruction</p> <p><input type="checkbox"/> 3. To enable external interrupts</p> <p><input checked="" type="checkbox"/> 4. To store arithmetic flags and register bank select bits</p>																
<table border="1" style="border-collapse: collapse; width: 250px;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td>441009154671</td></tr> <tr><td>Option 1 ID :</td><td>441009613839</td></tr> <tr><td>Option 2 ID :</td><td>441009613838</td></tr> <tr><td>Option 3 ID :</td><td>441009613841</td></tr> <tr><td>Option 4 ID :</td><td>441009613840</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 :	441009154671	Option 1 ID :	441009613839	Option 2 ID :	441009613838	Option 3 ID :	441009613841	Option 4 ID :	441009613840	Status :	<b>Answered</b>	Chosen Option :	4
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Option 3 ID :	441009613841																
Option 4 ID :	441009613840																
Status :	<b>Answered</b>																
Chosen Option :	4																



Q.2 Match the following designations of sheets with their respective trimmed sizes in length and breadth.

**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-S ; B-P ; C-Q ; D-R

3. A-P ; B-R ; C-Q ; D-S

4. A-Q ; B-R ; C-S ; D-P

Question Type : MCQ

Question ID : 441009156553

Option 1 ID : 441009621375

Option 2 ID : 441009621377

Option 3 ID : 441009621376

Option 4 ID : 441009621378

Status : Answered

Chosen Option : 1

Q.2 If the multimeter reading shows '0.00' when measuring current, what could be the possible reason?

Ans  1. The battery of the multimeter is low.

2. The probes are reversed.

3. The fuse in the multimeter is blown.

4. The circuit has no current flow.

Question Type : MCQ

Question ID : 441009154782

Option 1 ID : 441009614284

Option 2 ID : 441009614283

Option 3 ID : 441009614285

Option 4 ID : 441009614282

Status : Answered

Chosen Option : 4

<b>Q.3</b> 0	What is the primary function of a 1:4 demux?																		
<b>Ans</b>	<input checked="" type="checkbox"/> 1. To combine multiple signals into one output																		
	<input checked="" type="checkbox"/> 2. To amplify an input signal																		
	<input checked="" type="checkbox"/> 3. To direct one input signal to four output lines																		
	<input checked="" type="checkbox"/> 4. To store input signals for later use																		
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Option 4 ID :	<b>441009614113</b>																		
Status :	<b>Answered</b>																		
Chosen Option :	<b>3</b>																		
<b>Q.3</b> 1	In a monostable multivibrator using IC 555, what triggers the output pulse?																		
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Connecting a capacitor to ground																		
	<input checked="" type="checkbox"/> 2. Resetting the flip-flop manually																		
	<input checked="" type="checkbox"/> 3. Applying a high voltage of value equal to Vcc at pin 5																		
	<input checked="" type="checkbox"/> 4. Applying a pulse with voltage going below 1/3 Vcc																		
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Option 4 ID :	<b>441009613903</b>																		
Status :	<b>Not Answered</b>																		
Chosen Option :	<b>--</b>																		
<b>Q.3</b> 2	What is the purpose of the resistor 'R' in an RC oscillator?																		
<b>Ans</b>	<input checked="" type="checkbox"/> 1. To provide a means of filtering out all frequencies																		
	<input checked="" type="checkbox"/> 2. To provide a path for the output signal																		
	<input checked="" type="checkbox"/> 3. To provide a means of stabilising the supply voltage																		
	<input checked="" type="checkbox"/> 4. To provide a means of adjusting the frequency of oscillation																		
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Option 4 ID :	<b>441009940191</b>																		
Status :	<b>Not Answered</b>																		
Chosen Option :	<b>--</b>																		

Q.3 3	What is the function of the resistor connected between Pin 7 (discharge) and Vcc in a monostable multivibrator?																
Ans	<input type="checkbox"/> 1. It sets the output frequency. <input type="checkbox"/> 2. It provides a feedback path. <input checked="" type="checkbox"/> 3. It controls the charging time of the capacitor. <input type="checkbox"/> 4. It limits the current through the IC.																
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Option 3 ID :	441009613899																
Option 4 ID :	441009613900																
Status :	Not Answered																
Chosen Option :	--																
Q.3 4	How can an OR gate be implemented using only NAND gates?																
Ans	<input type="checkbox"/> 1. Use four NAND gates - 2 as NOT gates and 2 for the NAND operation. <input checked="" type="checkbox"/> 2. Use three NAND gates - 2 as NOT gates and 1 for the NAND operation. <input type="checkbox"/> 3. Use one NAND gate - 1 for the OR operation directly. <input type="checkbox"/> 4. Use two NAND gates - 1 as NOT gates and 1 for the OR operation.																
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Option 3 ID :	441009614154																
Option 4 ID :	441009614155																
Status :	Answered																
Chosen Option :	2																
Q.3 5	What is the gain of a voltage amplifier if the input voltage is 2 V and the output voltage is 10 V?																
Ans	<input type="checkbox"/> 1. 20 <input type="checkbox"/> 2. 10 <input 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>441009240518</td></tr> <tr><td>Option 1 ID :</td><td>441009940221</td></tr> <tr><td>Option 2 ID :</td><td>441009940220</td></tr> <tr><td>Option 3 ID :</td><td>441009940218</td></tr> <tr><td>Option 4 ID :</td><td>441009940219</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 :	441009240518	Option 1 ID :	441009940221	Option 2 ID :	441009940220	Option 3 ID :	441009940218	Option 4 ID :	441009940219	Status :	Answered	Chosen Option :	4
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Option 3 ID :	441009940218																
Option 4 ID :	441009940219																
Status :	Answered																
Chosen Option :	4																

<p><b>Q.3</b> 6</p>	<p>In a circuit with a NTC type thermistor and a fixed resistor connected in series connected to a DC power supply, what will happen to the output voltage if there is a rise in temperature?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. The output voltage will remain constant.</p> <p><input type="checkbox"/> 2. The output voltage will decrease.</p> <p><input type="checkbox"/> 3. The output voltage will fluctuate depending on the resistor value.</p> <p><input checked="" type="checkbox"/> 4. The output voltage will increase.</p>																	
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Option 4 ID :	441009621256																	
Status :	<b>Not Answered</b>																	
Chosen Option :	--																	
<p><b>Q.3</b> 7</p>	<p>What will be the output of a Zero Crossing Detector if the input signal is a triangular wave instead of a sine wave?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. The output will remain at zero.</p> <p><input type="checkbox"/> 2. The output will be a triangular waveform.</p> <p><input type="checkbox"/> 3. The output will have multiple transitions at each crossing.</p> <p><input checked="" type="checkbox"/> 4. The output will still be a square wave but maybe with unequal high and low periods.</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>441009154694</td></tr> <tr><td>Option 1 ID :</td><td>441009613933</td></tr> <tr><td>Option 2 ID :</td><td>441009613931</td></tr> <tr><td>Option 3 ID :</td><td>441009613932</td></tr> <tr><td>Option 4 ID :</td><td>441009613930</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 :	441009154694	Option 1 ID :	441009613933	Option 2 ID :	441009613931	Option 3 ID :	441009613932	Option 4 ID :	441009613930	Status :	<b>Not Answered</b>	Chosen Option :	--
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Status :	<b>Not Answered</b>																	
Chosen Option :	--																	
<p><b>Q.3</b> 8</p>	<p>Which of the following points is NOT relevant to a LVDT?</p>																	
<p><b>Ans</b></p>	<p><input type="checkbox"/> 1. Low sensitivity</p> <p><input type="checkbox"/> 2. Low power consumption</p> <p><input type="checkbox"/> 3. Less rugged</p> <p><input checked="" type="checkbox"/> 4. Prone to more friction</p>																	
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Status :	<b>Answered</b>																	
Chosen Option :	4																	

<b>Q.3</b>	The SI unit of 'ultimate stress' is _____.																	
<b>9</b>																		
<b>Ans</b>	<input checked="" type="checkbox"/> 1. pascal (Pa) <input type="checkbox"/> 2. joule per square meter (J/m <sup>2</sup> ) <input type="checkbox"/> 3. newton (N) <input type="checkbox"/> 4. newton per meter (N/m)																	
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Chosen Option :	1																	
<b>Q.4</b>	What is the main advantage of using a Colpitts oscillator over a Hartley oscillator in terms of frequency stability?																	
<b>0</b>																		
<b>Ans</b>	<input type="checkbox"/> 1. The frequency stability of both oscillators is dependent on the values of the components used. <input checked="" type="checkbox"/> 2. The Colpitts oscillator has a more stable frequency than the Hartley oscillator due to its capacitive voltage divider. <input type="checkbox"/> 3. The Hartley oscillator has a more stable frequency than the Colpitts oscillator due to its inductive voltage divider. <input type="checkbox"/> 4. The frequency stability of both oscillators is the same.																	
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Option 3 ID :	441009940199																	
Option 4 ID :	441009940200																	
Status :	Answered																	
Chosen Option :	2																	
<b>Q.4</b>	What is the primary reason for conducting a vehicle road test?																	
<b>1</b>																		
<b>Ans</b>	<input checked="" type="checkbox"/> 1. To ensure the vehicle is functioning safely and correctly <input type="checkbox"/> 2. To increase fuel efficiency <input type="checkbox"/> 3. To test how fast the vehicle can go <input type="checkbox"/> 4. To avoid the need for inspections																	
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Status :	Answered																	
Chosen Option :	1																	

<p><b>Q.4</b> 2</p>	<p>Natural rubber is soft at high temperatures and brittle at low temperatures; hence raw rubber is heated with sulphur and other additives at a temperature range between 373 – 415 K to make it strong. This process is called _____ of rubber.</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. extrusion</p> <p><input checked="" type="checkbox"/> 2. latex</p> <p><input checked="" type="checkbox"/> 3. molding</p> <p><input checked="" type="checkbox"/> 4. vulcanisation</p>																
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Option 4 ID :	441009621751																
Status :	Answered																
Chosen Option :	4																
<p><b>Q.4</b> 3</p>	<p>Electrical energy is measured in which unit?</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. Joule</p> <p><input checked="" type="checkbox"/> 2. Ampere-hour (Ah)</p> <p><input checked="" type="checkbox"/> 3. Watt</p> <p><input checked="" type="checkbox"/> 4. Kilowatt-hour (kWh)</p>																
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Option 3 ID :	441009614254																
Option 4 ID :	441009614256																
Status :	Answered																
Chosen Option :	4																
<p><b>Q.4</b> 4</p>	<p>An angle greater than 180 degrees is referred to as _____.</p>																
<p><b>Ans</b></p>	<p><input checked="" type="checkbox"/> 1. a right angle</p> <p><input checked="" type="checkbox"/> 2. an acute angle</p> <p><input checked="" type="checkbox"/> 3. a reflex angle</p> <p><input checked="" type="checkbox"/> 4. an obtuse angle</p>																
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Option 2 ID :	441009621321																
Option 3 ID :	441009621322																
Option 4 ID :	441009621319																
Status :	Answered																
Chosen Option :	3																

<b>Q.4</b> 5	What is the primary purpose of preventive maintenance?																	
<b>Ans</b>	✗ 1. To increase the workload of employees																	
	✗ 2. To eliminate the need for regular inspections																	
	✗ 3. To delay repairs until breakdowns occur																	
	✓ 4. To reduce unexpected equipment failures																	
<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>441009156593</td></tr> <tr><td>Option 1 ID :</td><td>441009621536</td></tr> <tr><td>Option 2 ID :</td><td>441009621538</td></tr> <tr><td>Option 3 ID :</td><td>441009621537</td></tr> <tr><td>Option 4 ID :</td><td>441009621535</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 :	441009156593	Option 1 ID :	441009621536	Option 2 ID :	441009621538	Option 3 ID :	441009621537	Option 4 ID :	441009621535	Status :	<b>Answered</b>	Chosen Option :	4
Question Type :	<b>MCQ</b>																	
Question ID :	441009156593																	
Option 1 ID :	441009621536																	
Option 2 ID :	441009621538																	
Option 3 ID :	441009621537																	
Option 4 ID :	441009621535																	
Status :	<b>Answered</b>																	
Chosen Option :	4																	
<b>Q.4</b> 6	Match the following sensor selection criteria with their correct definitions.																	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Criteria</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>I. Operating range</td> <td>A. Chosen to allow sufficient output</td> </tr> <tr> <td>II. Sensitivity</td> <td>B. Chosen to maintain range requirement</td> </tr> <tr> <td>III. Frequency response</td> <td>C. Flat over entire desired range</td> </tr> </tbody> </table>	Criteria	Definition	I. Operating range	A. Chosen to allow sufficient output	II. Sensitivity	B. Chosen to maintain range requirement	III. Frequency response	C. Flat over entire desired range									
Criteria	Definition																	
I. Operating range	A. Chosen to allow sufficient output																	
II. Sensitivity	B. Chosen to maintain range requirement																	
III. Frequency response	C. Flat over entire desired range																	
<b>Ans</b>	✗ 1. I-A, II-B, III-C																	
	✓ 2. I-B, II-A, III-C																	
	✗ 3. I-A, II-C, III-B																	
	✗ 4. I-B, II-C, III-A																	
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Question ID :	441009154727																	
Option 1 ID :	441009614063																	
Option 2 ID :	441009614064																	
Option 3 ID :	441009614065																	
Option 4 ID :	441009614062																	
Status :	<b>Answered</b>																	
Chosen Option :	2																	
<b>Q.4</b> 7	What is the primary purpose of shielding in electrical cables?																	
<b>Ans</b>	✓ 1. To protect the cable from external electromagnetic interference																	
	✗ 2. To increase the current-carrying capacity of the cable																	
	✗ 3. To increase the voltage capacity of the cable																	
	✗ 4. To prevent heat loss from the cable																	
<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>441009156531</td></tr> <tr><td>Option 1 ID :</td><td>441009621289</td></tr> <tr><td>Option 2 ID :</td><td>441009621290</td></tr> <tr><td>Option 3 ID :</td><td>441009621287</td></tr> <tr><td>Option 4 ID :</td><td>441009621288</td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td>1</td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	441009156531	Option 1 ID :	441009621289	Option 2 ID :	441009621290	Option 3 ID :	441009621287	Option 4 ID :	441009621288	Status :	<b>Answered</b>	Chosen Option :	1
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Option 1 ID :	441009621289																	
Option 2 ID :	441009621290																	
Option 3 ID :	441009621287																	
Option 4 ID :	441009621288																	
Status :	<b>Answered</b>																	
Chosen Option :	1																	

<b>Q.4</b>	<b>For a JK flip-flop, if the J input is held at 1 and the K input is held at 0, what will happen?</b>
<b>8</b>	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. The output will be set to 1.
	<input type="checkbox"/> 2. The output will toggle on each clock pulse.
	<input type="checkbox"/> 3. The output will always be 1.
	<input type="checkbox"/> 4. The output will always be 0.

Question Type :	<b>MCQ</b>
Question ID :	<b>441009154734</b>
Option 1 ID :	<b>441009614093</b>
Option 2 ID :	<b>441009614092</b>
Option 3 ID :	<b>441009614090</b>
Option 4 ID :	<b>441009614091</b>
Status :	<b>Not Answered</b>
Chosen Option :	<b>--</b>

<b>Q.4</b>	<b>Which of the following is a primary difference between a primary and a secondary electrochemical cell?</b>
<b>9</b>	
<b>Ans</b>	<input type="checkbox"/> 1. A secondary cell produces more energy than a primary cell.
	<input type="checkbox"/> 2. A primary cell can be recharged, while a secondary cell cannot be recharged.
	<input type="checkbox"/> 3. There is no difference between primary and secondary cells.
	<input checked="" type="checkbox"/> 4. A primary cell cannot be recharged, while a secondary cell can be recharged.

Question Type :	<b>MCQ</b>
Question ID :	<b>441009156522</b>
Option 1 ID :	<b>441009621253</b>
Option 2 ID :	<b>441009621251</b>
Option 3 ID :	<b>441009621254</b>
Option 4 ID :	<b>441009621252</b>
Status :	<b>Answered</b>
Chosen Option :	<b>4</b>

<b>Q.5</b>	<b>Which of the following is the primary advantage of using parallel I/O ports over serial I/O ports?</b>
<b>0</b>	
<b>Ans</b>	<input type="checkbox"/> 1. They consume less power.
	<input type="checkbox"/> 2. They are more commonly used in modern systems than serial I/O ports.
	<input checked="" type="checkbox"/> 3. They are faster due to simultaneous transmission of data bits.
	<input type="checkbox"/> 4. They require fewer wires for data transmission.

Question Type :	<b>MCQ</b>
Question ID :	<b>441009154678</b>
Option 1 ID :	<b>441009613868</b>
Option 2 ID :	<b>441009613869</b>
Option 3 ID :	<b>441009613867</b>
Option 4 ID :	<b>441009613866</b>
Status :	<b>Answered</b>
Chosen Option :	<b>3</b>

Q.5	Which of the following screwdrivers has cross-shaped tips that are unlikely to slip from the cruciform slots in Philips recessed head screws?																
1																	
Ans	<input checked="" type="checkbox"/> 1. Cross-recess screwdriver <input type="checkbox"/> 2. Stumpy screwdriver <input type="checkbox"/> 3. Ratchet screwdriver <input type="checkbox"/> 4. Offset screwdriver																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156638</td></tr> <tr><td>Option 1 ID :</td><td>441009621715</td></tr> <tr><td>Option 2 ID :</td><td>441009621718</td></tr> <tr><td>Option 3 ID :</td><td>441009621717</td></tr> <tr><td>Option 4 ID :</td><td>441009621716</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 :	441009156638	Option 1 ID :	441009621715	Option 2 ID :	441009621718	Option 3 ID :	441009621717	Option 4 ID :	441009621716	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																
Question ID :	441009156638																
Option 1 ID :	441009621715																
Option 2 ID :	441009621718																
Option 3 ID :	441009621717																
Option 4 ID :	441009621716																
Status :	Not Answered																
Chosen Option :	--																
Q.5	Which parameter of the carrier pulse is impacted during pulse width modulation of pulse train due to continuous time varying analog signal?																
2																	
Ans	<input checked="" type="checkbox"/> 1. Duty cycle <input type="checkbox"/> 2. Only amplitude <input type="checkbox"/> 3. Both amplitude and frequency <input type="checkbox"/> 4. Only frequency																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154708</td></tr> <tr><td>Option 1 ID :</td><td>441009613987</td></tr> <tr><td>Option 2 ID :</td><td>441009613986</td></tr> <tr><td>Option 3 ID :</td><td>441009613989</td></tr> <tr><td>Option 4 ID :</td><td>441009613988</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 :	441009154708	Option 1 ID :	441009613987	Option 2 ID :	441009613986	Option 3 ID :	441009613989	Option 4 ID :	441009613988	Status :	Not Answered	Chosen Option :	--
Question Type :	MCQ																
Question ID :	441009154708																
Option 1 ID :	441009613987																
Option 2 ID :	441009613986																
Option 3 ID :	441009613989																
Option 4 ID :	441009613988																
Status :	Not Answered																
Chosen Option :	--																
Q.5	What is the output state of a JK flip-flop when J = 0 and K = 0?																
3																	
Ans	<input checked="" type="checkbox"/> 1. No change in output <input type="checkbox"/> 2. Output Q = 1, Q' = 1 <input type="checkbox"/> 3. Output Q = 0, Q' = 1 <input type="checkbox"/> 4. Output Q = 1, Q' = 0																
<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154735</td></tr> <tr><td>Option 1 ID :</td><td>441009614096</td></tr> <tr><td>Option 2 ID :</td><td>441009614097</td></tr> <tr><td>Option 3 ID :</td><td>441009614094</td></tr> <tr><td>Option 4 ID :</td><td>441009614095</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 :	441009154735	Option 1 ID :	441009614096	Option 2 ID :	441009614097	Option 3 ID :	441009614094	Option 4 ID :	441009614095	Status :	Answered	Chosen Option :	1
Question Type :	MCQ																
Question ID :	441009154735																
Option 1 ID :	441009614096																
Option 2 ID :	441009614097																
Option 3 ID :	441009614094																
Option 4 ID :	441009614095																
Status :	Answered																
Chosen Option :	1																

Q.5	Sine bars are used when a high degree of accuracy less than _____ is needed for measuring angles.
4	
Ans	<input checked="" type="checkbox"/> 1. 1 degree <input checked="" type="checkbox"/> 2. 30 degrees <input checked="" type="checkbox"/> 3. 30 minutes <input checked="" type="checkbox"/> 4. 1 minute

Question Type :	MCQ
Question ID :	441009240890
Option 1 ID :	441009941518
Option 2 ID :	441009941520
Option 3 ID :	441009941519
Option 4 ID :	441009941517
Status :	Answered
Chosen Option :	1

Q.5	Identify the circuit most suitable for demodulating or processing the PAM signal at the receiver end.
5	
Ans	<input checked="" type="checkbox"/> 1. Attenuator <input checked="" type="checkbox"/> 2. Mixer <input checked="" type="checkbox"/> 3. Oscillator <input checked="" type="checkbox"/> 4. Low pass filter

Question Type :	MCQ
Question ID :	441009154709
Option 1 ID :	441009613993
Option 2 ID :	441009613992
Option 3 ID :	441009613991
Option 4 ID :	441009613990
Status :	Not Answered
Chosen Option :	--

Q.5	The colour code of a resistor to be measured is yellow, violet, red and silver for the first, second, third and fourth bands, respectively. What is the maximum value of the resistor?
6	
Ans	<input checked="" type="checkbox"/> 1. 4,230 ohms <input checked="" type="checkbox"/> 2. 5,170 ohms <input checked="" type="checkbox"/> 3. 6,130 ohms <input checked="" type="checkbox"/> 4. 7,210 ohms

Question Type :	MCQ
Question ID :	441009163607
Option 1 ID :	441009648071
Option 2 ID :	441009648072
Option 3 ID :	441009648073
Option 4 ID :	441009648074
Status :	Answered
Chosen Option :	1

<b>Q.5</b> 7	Which of the following is a key electrical safety tip in a workshop?																	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Ignore frayed wires if the device is still working																	
	<input checked="" type="checkbox"/> 2. Operate machines with wet hands																	
	<input checked="" type="checkbox"/> 3. Ensure electrical equipment is properly grounded																	
	<input checked="" type="checkbox"/> 4. Use water to clean electrical panels																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td>441009156596</td></tr> <tr><td>Option 1 ID :</td><td>441009621548</td></tr> <tr><td>Option 2 ID :</td><td>441009621550</td></tr> <tr><td>Option 3 ID :</td><td>441009621547</td></tr> <tr><td>Option 4 ID :</td><td>441009621549</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 :	441009156596	Option 1 ID :	441009621548	Option 2 ID :	441009621550	Option 3 ID :	441009621547	Option 4 ID :	441009621549	Status :	<b>Answered</b>	Chosen Option :	3
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Option 1 ID :	441009621548																	
Option 2 ID :	441009621550																	
Option 3 ID :	441009621547																	
Option 4 ID :	441009621549																	
Status :	<b>Answered</b>																	
Chosen Option :	3																	
<b>Q.5</b> 8	Why is a braking system used in an energy meter?																	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. To reduce the power consumption of the meter itself																	
	<input checked="" type="checkbox"/> 2. To increase the speed of the rotating disk																	
	<input checked="" type="checkbox"/> 3. To maintain a uniform rotation proportional to power consumption																	
	<input checked="" type="checkbox"/> 4. To decrease the friction in the moving parts																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td>441009154774</td></tr> <tr><td>Option 1 ID :</td><td>441009614252</td></tr> <tr><td>Option 2 ID :</td><td>441009614250</td></tr> <tr><td>Option 3 ID :</td><td>441009614251</td></tr> <tr><td>Option 4 ID :</td><td>441009614253</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 :	441009154774	Option 1 ID :	441009614252	Option 2 ID :	441009614250	Option 3 ID :	441009614251	Option 4 ID :	441009614253	Status :	<b>Answered</b>	Chosen Option :	3
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Option 4 ID :	441009614253																	
Status :	<b>Answered</b>																	
Chosen Option :	3																	
<b>Q.5</b> 9	What is the term used to describe programs that distinguish between uppercase and lowercase letters, treating "yes" and "YES" as different inputs?																	
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Numerical																	
	<input checked="" type="checkbox"/> 2. Alphabetical																	
	<input checked="" type="checkbox"/> 3. Case-sensitive																	
	<input checked="" type="checkbox"/> 4. Case-insensitive																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td>441009156569</td></tr> <tr><td>Option 1 ID :</td><td>441009621442</td></tr> <tr><td>Option 2 ID :</td><td>441009621441</td></tr> <tr><td>Option 3 ID :</td><td>441009621440</td></tr> <tr><td>Option 4 ID :</td><td>441009621439</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 :	441009156569	Option 1 ID :	441009621442	Option 2 ID :	441009621441	Option 3 ID :	441009621440	Option 4 ID :	441009621439	Status :	<b>Answered</b>	Chosen Option :	3
Question Type :	<b>MCQ</b>																	
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Option 1 ID :	441009621442																	
Option 2 ID :	441009621441																	
Option 3 ID :	441009621440																	
Option 4 ID :	441009621439																	
Status :	<b>Answered</b>																	
Chosen Option :	3																	

Q.6 0	What is the primary goal of the 5S concept?																		
Ans	<input checked="" type="checkbox"/> 1. To eliminate the need for maintenance																		
	<input checked="" type="checkbox"/> 2. To replace traditional safety measures																		
	<input checked="" type="checkbox"/> 3. To improve workplace organisation and efficiency																		
	<input checked="" type="checkbox"/> 4. To increase the number of safety regulations																		
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156590</td></tr> <tr><td>Option 1 ID :</td><td>441009621525</td></tr> <tr><td>Option 2 ID :</td><td>441009621526</td></tr> <tr><td>Option 3 ID :</td><td>441009621523</td></tr> <tr><td>Option 4 ID :</td><td>441009621524</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 :	441009156590	Option 1 ID :	441009621525	Option 2 ID :	441009621526	Option 3 ID :	441009621523	Option 4 ID :	441009621524	Status :	Answered	Chosen Option :	4
Question Type :	MCQ																		
Question ID :	441009156590																		
Option 1 ID :	441009621525																		
Option 2 ID :	441009621526																		
Option 3 ID :	441009621523																		
Option 4 ID :	441009621524																		
Status :	Answered																		
Chosen Option :	4																		
Q.6 1	A 100-mm centre-punch could have a 10-mm diameter body and a 6-mm diameter point ground to an angle of _____.																		
Ans	<input checked="" type="checkbox"/> 1. 60°																		
	<input checked="" type="checkbox"/> 2. 30°																		
	<input checked="" type="checkbox"/> 3. 90°																		
	<input checked="" type="checkbox"/> 4. 120°																		
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009161829</td></tr> <tr><td>Option 1 ID :</td><td>441009640970</td></tr> <tr><td>Option 2 ID :</td><td>441009640969</td></tr> <tr><td>Option 3 ID :</td><td>441009640971</td></tr> <tr><td>Option 4 ID :</td><td>441009640972</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 :	441009161829	Option 1 ID :	441009640970	Option 2 ID :	441009640969	Option 3 ID :	441009640971	Option 4 ID :	441009640972	Status :	Not Answered	Chosen Option :	--
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Option 3 ID :	441009640971																		
Option 4 ID :	441009640972																		
Status :	Not Answered																		
Chosen Option :	--																		
Q.6 2	What is the Boolean expression for the sum output of a full adder with inputs A, B and Carry-in (Cin)?																		
Ans	<input checked="" type="checkbox"/> 1. $A \cdot B + A' \cdot B$																		
	<input checked="" type="checkbox"/> 2. $A \oplus B \oplus C_{in}$																		
	<input checked="" type="checkbox"/> 3. $A \cdot B \cdot C_{in}$																		
	<input checked="" type="checkbox"/> 4. $A + B + C_{in}$																		
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154742</td></tr> <tr><td>Option 1 ID :</td><td>441009614122</td></tr> <tr><td>Option 2 ID :</td><td>441009614123</td></tr> <tr><td>Option 3 ID :</td><td>441009614125</td></tr> <tr><td>Option 4 ID :</td><td>441009614124</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 :	441009154742	Option 1 ID :	441009614122	Option 2 ID :	441009614123	Option 3 ID :	441009614125	Option 4 ID :	441009614124	Status :	Answered	Chosen Option :	2
Question Type :	MCQ																		
Question ID :	441009154742																		
Option 1 ID :	441009614122																		
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Option 3 ID :	441009614125																		
Option 4 ID :	441009614124																		
Status :	Answered																		
Chosen Option :	2																		

<b>Q.6</b> 3	What is the purpose of the two voltage coils in a power factor meter?																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. To improve measurement accuracy in DC circuits <input checked="" type="checkbox"/> 2. To measure active and reactive power <input checked="" type="checkbox"/> 3. To measure power factor at two different frequencies <input checked="" type="checkbox"/> 4. To create a rotating field for phase angle measurement																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154771</td></tr> <tr><td>Option 1 ID :</td><td>441009614241</td></tr> <tr><td>Option 2 ID :</td><td>441009614238</td></tr> <tr><td>Option 3 ID :</td><td>441009614240</td></tr> <tr><td>Option 4 ID :</td><td>441009614239</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 :	441009154771	Option 1 ID :	441009614241	Option 2 ID :	441009614238	Option 3 ID :	441009614240	Option 4 ID :	441009614239	Status :	Not Answered	Chosen Option :	--
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Status :	Not Answered																
Chosen Option :	--																
<b>Q.6</b> 4	For which of the following calipers, a screw and nut are provided for opening and closing the caliper legs?																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Simple calipers <input checked="" type="checkbox"/> 2. Leg and point calipers <input checked="" type="checkbox"/> 3. Firm joint calipers <input checked="" type="checkbox"/> 4. Spring joint calipers																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009156632</td></tr> <tr><td>Option 1 ID :</td><td>441009621694</td></tr> <tr><td>Option 2 ID :</td><td>441009621693</td></tr> <tr><td>Option 3 ID :</td><td>441009621691</td></tr> <tr><td>Option 4 ID :</td><td>441009621692</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 :	441009156632	Option 1 ID :	441009621694	Option 2 ID :	441009621693	Option 3 ID :	441009621691	Option 4 ID :	441009621692	Status :	Not Answered	Chosen Option :	--
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Option 3 ID :	441009621691																
Option 4 ID :	441009621692																
Status :	Not Answered																
Chosen Option :	--																
<b>Q.6</b> 5	What does 'OL' or '1' indicate when measuring voltage with a digital multimeter?																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. The test leads are shorted. <input checked="" type="checkbox"/> 2. The voltage is too low. <input checked="" type="checkbox"/> 3. The voltage exceeds the selected range. <input checked="" type="checkbox"/> 4. The battery is low.																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154784</td></tr> <tr><td>Option 1 ID :</td><td>441009614293</td></tr> <tr><td>Option 2 ID :</td><td>441009614290</td></tr> <tr><td>Option 3 ID :</td><td>441009614292</td></tr> <tr><td>Option 4 ID :</td><td>441009614291</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 :	441009154784	Option 1 ID :	441009614293	Option 2 ID :	441009614290	Option 3 ID :	441009614292	Option 4 ID :	441009614291	Status :	Not Answered	Chosen Option :	--
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Option 3 ID :	441009614292																
Option 4 ID :	441009614291																
Status :	Not Answered																
Chosen Option :	--																

<b>Q.6</b> 6	An LVDT has a secondary voltage of 5 V for a displacement of $\pm 10$ mm. Determine the output voltage for a core displacement of 6 mm.																
<b>Ans</b>	✓ 1. 3 V ✗ 2. 0.5 V ✗ 3. 1.5 V ✗ 4. 4.5 V																
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154720</td></tr> <tr><td>Option 1 ID :</td><td>441009614036</td></tr> <tr><td>Option 2 ID :</td><td>441009614035</td></tr> <tr><td>Option 3 ID :</td><td>441009614037</td></tr> <tr><td>Option 4 ID :</td><td>441009614034</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 :	441009154720	Option 1 ID :	441009614036	Option 2 ID :	441009614035	Option 3 ID :	441009614037	Option 4 ID :	441009614034	Status :	Answered	Chosen Option :	1
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Option 2 ID :	441009614035																
Option 3 ID :	441009614037																
Option 4 ID :	441009614034																
Status :	Answered																
Chosen Option :	1																
<b>Q.6</b> 7	Which of the following conversions are correct?																
<b>Ans</b>	✓ 1. 1 L = 1 dm <sup>3</sup> and 1 mL = 1 cm <sup>3</sup> ✗ 2. 1000 L = 1 dm <sup>3</sup> and 1 mL = 1000 cm <sup>3</sup> ✗ 3. 1000 L = 1 dm <sup>3</sup> and 1000 mL = 1 cm <sup>3</sup> ✗ 4. 1 L = 1000 dm <sup>3</sup> and 1 mL = 1000 cm <sup>3</sup>																
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Option 3 ID :	441009621800																
Option 4 ID :	441009621801																
Status :	Answered																
Chosen Option :	1																
<b>Q.6</b> 8	How can an AND gate be implemented using only NAND gates?																
<b>Ans</b>	✗ 1. By connecting OR gate to NAND gate ✓ 2. By inverting the output of a NAND gate ✗ 3. By connecting the inputs of a NAND gate to logic 1 ✗ 4. By connecting two NAND gates in Parallel																
<table border="1" style="border-collapse: collapse; width: 100%;"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154751</td></tr> <tr><td>Option 1 ID :</td><td>441009614161</td></tr> <tr><td>Option 2 ID :</td><td>441009614159</td></tr> <tr><td>Option 3 ID :</td><td>441009614160</td></tr> <tr><td>Option 4 ID :</td><td>441009614158</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 :	441009154751	Option 1 ID :	441009614161	Option 2 ID :	441009614159	Option 3 ID :	441009614160	Option 4 ID :	441009614158	Status :	Answered	Chosen Option :	2
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Chosen Option :	2																

<b>Q.6</b>	<b>Which of the following is a major risk associated with fuel spillage?</b>	9																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. Increased productivity <input checked="" type="checkbox"/> 2. Reduced need for ventilation <input checked="" type="checkbox"/> 3. Better lubrication for workshop floors <input checked="" type="checkbox"/> 4. Fire hazards and environmental contamination																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td><b>441009156599</b></td></tr> <tr><td>Option 1 ID :</td><td><b>441009621560</b></td></tr> <tr><td>Option 2 ID :</td><td><b>441009621562</b></td></tr> <tr><td>Option 3 ID :</td><td><b>441009621561</b></td></tr> <tr><td>Option 4 ID :</td><td><b>441009621559</b></td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td><b>4</b></td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	<b>441009156599</b>	Option 1 ID :	<b>441009621560</b>	Option 2 ID :	<b>441009621562</b>	Option 3 ID :	<b>441009621561</b>	Option 4 ID :	<b>441009621559</b>	Status :	<b>Answered</b>	Chosen Option :	<b>4</b>
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Status :	<b>Answered</b>																	
Chosen Option :	<b>4</b>																	
<b>Q.7</b>	<b>What is the function of a 4-to-1 multiplexer?</b>	0																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. It multiplies four data inputs to one output. <input checked="" type="checkbox"/> 2. It selects one of four select lines based on two data inputs. <input checked="" type="checkbox"/> 3. It routes four data inputs to one output without selection. <input checked="" type="checkbox"/> 4. It selects one of four data inputs based on two select lines.																	
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Option 4 ID :	<b>441009614114</b>																	
Status :	<b>Answered</b>																	
Chosen Option :	<b>4</b>																	
<b>Q.7</b>	<b>A multimeter's internal fuse is rated at 250 mA. If a circuit draws 1 A, what will happen when measuring current?</b>	1																
<b>Ans</b>	<input checked="" type="checkbox"/> 1. The multimeter will read 1A accurately. <input checked="" type="checkbox"/> 2. The fuse will blow, and no current will be measured. <input checked="" type="checkbox"/> 3. The reading will be lower than expected. <input checked="" type="checkbox"/> 4. The multimeter will automatically adjust to the correct range.																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Question Type :</td><td><b>MCQ</b></td></tr> <tr><td>Question ID :</td><td><b>441009154781</b></td></tr> <tr><td>Option 1 ID :</td><td><b>441009614278</b></td></tr> <tr><td>Option 2 ID :</td><td><b>441009614280</b></td></tr> <tr><td>Option 3 ID :</td><td><b>441009614279</b></td></tr> <tr><td>Option 4 ID :</td><td><b>441009614281</b></td></tr> <tr><td>Status :</td><td><b>Answered</b></td></tr> <tr><td>Chosen Option :</td><td><b>2</b></td></tr> </table>			Question Type :	<b>MCQ</b>	Question ID :	<b>441009154781</b>	Option 1 ID :	<b>441009614278</b>	Option 2 ID :	<b>441009614280</b>	Option 3 ID :	<b>441009614279</b>	Option 4 ID :	<b>441009614281</b>	Status :	<b>Answered</b>	Chosen Option :	<b>2</b>
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Option 4 ID :	<b>441009614281</b>																	
Status :	<b>Answered</b>																	
Chosen Option :	<b>2</b>																	

Q.7 2	The use of the modulation process helps in shifting the given message signal frequencies to a _____ range where it can occupy only _____ percentage of the spectrum.																	
Ans	<input checked="" type="checkbox"/> 1. very low frequency; high <input checked="" type="checkbox"/> 2. very high frequency; high <input checked="" type="checkbox"/> 3. very low frequency; very small <input checked="" type="checkbox"/> 4. very high frequency; very small																	
		<table border="1"> <tr><td>Question Type :</td><td>MCQ</td></tr> <tr><td>Question ID :</td><td>441009154719</td></tr> <tr><td>Option 1 ID :</td><td>441009614033</td></tr> <tr><td>Option 2 ID :</td><td>441009614031</td></tr> <tr><td>Option 3 ID :</td><td>441009614032</td></tr> <tr><td>Option 4 ID :</td><td>441009614030</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 :	441009154719	Option 1 ID :	441009614033	Option 2 ID :	441009614031	Option 3 ID :	441009614032	Option 4 ID :	441009614030	Status :	Not Answered	Chosen Option :	--
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Status :	Not Answered																	
Chosen Option :	--																	
Q.7 3	In a positive feedback oscillator, what is the effect of increasing the gain of the amplifier (A) on the frequency of oscillation?																	
Ans	<input checked="" type="checkbox"/> 1. The frequency of oscillation becomes unstable. <input checked="" type="checkbox"/> 2. The frequency of oscillation decreases. <input checked="" type="checkbox"/> 3. The frequency of oscillation remains unchanged. <input checked="" type="checkbox"/> 4. The frequency of oscillation increases.																	
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Option 4 ID :	441009940202																	
Status :	Not Answered																	
Chosen Option :	--																	
Q.7 4	What is the primary reason for the heating effect in a conductor when an electric current passes through it?																	
Ans	<input checked="" type="checkbox"/> 1. The movement of electrons causes heat generation. <input checked="" type="checkbox"/> 2. The movement of protons causes heat generation. <input checked="" type="checkbox"/> 3. The electric field in the conductor causes heat generation. <input checked="" type="checkbox"/> 4. The conductor absorbs heat from the surrounding environment.																	
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Option 4 ID :	441009621261																	
Status :	Answered																	
Chosen Option :	1																	

Q.7	The accuracy of measurement by a try square is about:
5	
Ans	<input type="checkbox"/> 1. 0.001 mm per 10 mm length
	<input checked="" type="checkbox"/> 2. 0.002 mm per 10 mm length
	<input type="checkbox"/> 3. 0.004 mm per 10 mm length
	<input type="checkbox"/> 4. 0.02 mm per 10 mm length

Question Type :	MCQ
Question ID :	441009240891
Option 1 ID :	441009941521
Option 2 ID :	441009941522
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