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AIRPORTS AUTHORITY OF INDIA

(SCHEDULE – ‘A’ MINI RATNA- CATEGORY- 1 PUBLIC SECTOR ENTERPRISES)

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Application Sequence Number	
Participant Id	
Participant Name	
Test Center Name	iON Digital Zone iDZ Siliguri
Test Date	14/07/2025
Test Time	1:00 PM - 3:00 PM
Subject	Junior Executive (Air Traffic Control)

Section : Part A General Knowledge

Q.1	In January 2025, the Government of India announced the appointment of V Narayanan as the new Chairman of _____.
Ans	<div><div><input checked="" type="checkbox"/></div>1. Indian Olympic Association (IOA)</div> <div><div><input checked="" type="checkbox"/></div>2. Central Bureau of Investigation (CBI)</div> <div><div><input checked="" type="checkbox"/></div>3. Indian Council of Medical Research (ICMR)</div> <div><div><input checked="" type="checkbox"/></div>4. Indian Space Research Organization (ISRO)</div>

Question ID :	44100962163
Option 1 ID :	441009247688
Option 2 ID :	441009247686
Option 3 ID :	441009247689
Option 4 ID :	441009247687
Status :	Answered
Chosen Option :	4

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Q.2	Which international institution provided financial assistance to India during the 1991 crisis?
Ans	<div><div><div>✖</div><div>1. United Nations (UN)</div></div></div>
	<div><div><div>✔</div><div>2. International Monetary Fund (IMF)</div></div></div>
	<div><div><div>✖</div><div>3. Asian Development Bank (ADB)</div></div></div>
	<div><div><div>✖</div><div>4. World Health Organization (WHO)</div></div></div>

Question ID :	44100943793
Option 1 ID :	441009174625
Option 2 ID :	441009174623
Option 3 ID :	441009174624
Option 4 ID :	441009174626
Status :	Answered
Chosen Option :	2

Q.3	Which river is of significance in the southern part of the Thar Desert?
Ans	<div><div><div>✖</div><div>1. Tapi</div></div></div>
	<div><div><div>✔</div><div>2. Luni</div></div></div>
	<div><div><div>✖</div><div>3. Godavari</div></div></div>
	<div><div><div>✖</div><div>4. Ganga</div></div></div>

Question ID :	44100946476
Option 1 ID :	441009185057
Option 2 ID :	441009185058
Option 3 ID :	441009185056
Option 4 ID :	441009185055
Status :	Answered
Chosen Option :	2

Q.4	Which Constitutional Amendment led to the constitutional recognition and formalisation of the Panchayati Raj system in India?
Ans	<div><div><div>✖</div><div>1. 42<sup>nd</sup> Amendment</div></div></div>
	<div><div><div>✔</div><div>2. 73<sup>rd</sup> Amendment</div></div></div>
	<div><div><div>✖</div><div>3. 74<sup>th</sup> Amendment</div></div></div>
	<div><div><div>✖</div><div>4. 44<sup>th</sup> Amendment</div></div></div>

Question ID :	44100939389
Option 1 ID :	441009157081
Option 2 ID :	441009157079
Option 3 ID :	441009157080
Option 4 ID :	441009157082
Status :	Answered
Chosen Option :	2

Q.5	Which of the following is a stringed (Tantuvadya) musical instrument?
Ans	<div><div><div>✖</div><div>1. Cymbals</div></div></div>
	<div><div><div>✖</div><div>2. Mridangam</div></div></div>
	<div><div><div>✔</div><div>3. Veena</div></div></div>
	<div><div><div>✖</div><div>4. Xylophone</div></div></div>

Question ID :	44100946735
Option 1 ID :	441009186081
Option 2 ID :	441009186083
Option 3 ID :	441009186084
Option 4 ID :	441009186082
Status :	Answered
Chosen Option :	3

Q.6	Which coastal plain(s) of India is/are an example(s) of a submerged coast?
Ans	<div><div><div>✖</div><div>1. Eastern and Western Coastal Plains</div></div></div>
	<div><div><div>✔</div><div>2. Only Western Coastal Plain</div></div></div>
	<div><div><div>✖</div><div>3. Southern Coastal Plain</div></div></div>
	<div><div><div>✖</div><div>4. Only Eastern Coastal Plain</div></div></div>

Question ID :	44100943271
Option 1 ID :	441009172545
Option 2 ID :	441009172543
Option 3 ID :	441009172546
Option 4 ID :	441009172544
Status :	Answered
Chosen Option :	4

Q.7	On the eve of Republic Day 2025, how many Armed Forces and Central Armed Police Forces personnel were approved for gallantry awards by the President of India?
Ans	<div><div><div>✖</div><div>1. 83</div></div></div>
	<div><div><div>✖</div><div>2. 103</div></div></div>
	<div><div><div>✔</div><div>3. 93</div></div></div>
	<div><div><div>✖</div><div>4. 73</div></div></div>

Question ID :	44100940016
Option 1 ID :	441009159595
Option 2 ID :	441009159594
Option 3 ID :	441009159593
Option 4 ID :	441009159596
Status :	Answered
Chosen Option :	1

Q.8	Who is the author of the poetry titled 'Main Jab Tak Aai Bahar' for which Sahitya Akademi Award was conferred for the year 2024?
Ans	✔ 1. Gagan Gill
	✘ 2. Dileep Jhaveri
	✘ 3. Dipak Kumar Sharma
	✘ 4. Sohan Koul

Question ID :	44100962161
Option 1 ID :	441009247680
Option 2 ID :	441009247678
Option 3 ID :	441009247681
Option 4 ID :	441009247679
Status :	Answered
Chosen Option :	3

Q.9	When was the first Five-year Plan launched?
Ans	✔ 1. 1951
	✘ 2. 1956
	✘ 3. 1967
	✘ 4. 1961

Question ID :	44100940022
Option 1 ID :	441009159617
Option 2 ID :	441009159618
Option 3 ID :	441009159620
Option 4 ID :	441009159619
Status :	Answered
Chosen Option :	1

Q.10	What is a significant feature introduced by the 73 <sup>rd</sup> Amendment Act in the Panchayati Raj system?
Ans	✘ 1. Establishment of Panchayats without constitutional backing
	✘ 2. Direct election of urban municipal bodies
	✔ 3. Introduction of Gram Sabha as a constitutional body
	✘ 4. Provision for removal of Panchayat members only through judicial orders

Question ID :	44100939393
Option 1 ID :	441009157097
Option 2 ID :	441009157095
Option 3 ID :	441009157096
Option 4 ID :	441009157098
Status :	Answered
Chosen Option :	3

Q.1	In a certain code language, 'creativity sparks innovation' is coded as 'tk jo lo' and 'innovation is needed' is coded as 'mb pt jo'. How is 'innovation' coded in the given language?
Ans	<div><div>✖</div>1. tk</div>
	<div><div>✔</div>2. jo</div>
	<div><div>✖</div>3. mb</div>
	<div><div>✖</div>4. pt</div>

Question ID :	44100938946
Option 1 ID :	441009155334
Option 2 ID :	441009155331
Option 3 ID :	441009155332
Option 4 ID :	441009155333
Status :	Answered
Chosen Option :	2

Q.2	In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.  NAMASTE - AMASTEN - MASTENA ETHICAL - THICALE - HICALET
Ans	<div><div>✔</div>1. CURTAIN - URTAINC - RTAINCU</div>
	<div><div>✖</div>2. CURTAIN - URTAINC - RTIANCU</div>
	<div><div>✖</div>3. CURTAIN - URTIANC - RTAINCU</div>
	<div><div>✖</div>4. CURTAIN - URATINC - RTAINCU</div>

Question ID :	44100940191
Option 1 ID :	441009160292
Option 2 ID :	441009160289
Option 3 ID :	441009160290
Option 4 ID :	441009160291
Status :	Answered
Chosen Option :	1

Q.3	Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)
Ans	<div><div>✖</div>1. GJ-MQ</div>
	<div><div>✔</div>2. QT-WU</div>
	<div><div>✖</div>3. IL-OS</div>
	<div><div>✖</div>4. BE-HL</div>

Question ID :	44100939766
Option 1 ID :	441009158594
Option 2 ID :	441009158596
Option 3 ID :	441009158595
Option 4 ID :	441009158593
Status :	Answered
Chosen Option :	2

Q.4	Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?  BDQ8 DGO12 FJM16 HMK20 ?
Ans	<input checked="" type="checkbox"/> 1. KRJ21
	<input checked="" type="checkbox"/> 2. IQH23
	<input checked="" type="checkbox"/> 3. JPI24
	<input checked="" type="checkbox"/> 4. QGK25

Question ID :	44100938982
Option 1 ID :	441009155477
Option 2 ID :	441009155476
Option 3 ID :	441009155475
Option 4 ID :	441009155478
Status :	Answered
Chosen Option :	3

Q.5	Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)
Ans	<input checked="" type="checkbox"/> 1. CJE
	<input checked="" type="checkbox"/> 2. HOK
	<input checked="" type="checkbox"/> 3. RYT
	<input checked="" type="checkbox"/> 4. MTO

Question ID :	44100939786
Option 1 ID :	441009158673
Option 2 ID :	441009158674
Option 3 ID :	441009158676
Option 4 ID :	441009158675
Status :	Answered
Chosen Option :	2

Q.6	Six students, Adi, Poonam, Moni, Bulbul, Shikha and Arun, are sitting in a straight line, facing north. Only one person sits to the right of Arun. Only two people sit between Moni and Bulbul. Only one person sits between Bulbul and Poonam. Shikha sits to the immediate left of Adi. Adi is not an immediate neighbour of Moni. Who sits on the extreme left end?
Ans	<input checked="" type="checkbox"/> 1. Adi
	<input checked="" type="checkbox"/> 2. Shikha
	<input checked="" type="checkbox"/> 3. Bulbul
	<input checked="" type="checkbox"/> 4. Moni

Question ID :	44100938950
Option 1 ID :	441009155348
Option 2 ID :	441009155349
Option 3 ID :	441009155347
Option 4 ID :	441009155350
Status :	Answered
Chosen Option :	4

Q.7

Refer to the following letter and symbol series and answer the question that follows.  
Counting to be done from left to right only.  
  
(Left) N + @ # A ₹ M S T E % R & A K G W < O = P Z D ^ U \* Q B F (Right)  
  
How many such symbols are there, each of which is immediately preceded by a letter and also immediately followed by another symbol?

Ans

✖

1. Three

✖

2. Two

✖

3. None

✔

4. One

Question ID :	44100939153
Option 1 ID :	441009156148
Option 2 ID :	441009156147
Option 3 ID :	441009156145
Option 4 ID :	441009156146
Status :	Answered
Chosen Option :	4

Q.8

In a certain code language,  
  
'A + B' means 'A is the brother of B',  
'A - B' means 'A is the sister of B',  
'A / B' means 'A is the husband of B',  
'A ! B' means 'A is the mother of B',  
'A × B' means 'A is the wife of B' and  
'A \* B' means 'A is the father of B'.  
  
How is M related to K if 'T + O - M + U ! K / S'?

Ans

✔

1. Mother's brother

✖

2. Father

✖

3. Father's father

✖

4. Mother

Question ID :	44100939756
Option 1 ID :	441009158556
Option 2 ID :	441009158554
Option 3 ID :	441009158555
Option 4 ID :	441009158553
Status :	Answered
Chosen Option :	1

Q.9

In a certain code language, 'MATTER' is coded as '83' and 'SOLIDS' is coded as '84'. What is the code for 'LIQUID' in the given code language?

Ans

✖

1. 81

✖

2. 80

✖

3. 72

✔

4. 78

Question ID :	44100939019
Option 1 ID :	441009155618
Option 2 ID :	441009155616
Option 3 ID :	441009155615
Option 4 ID :	441009155617
Status :	Answered
Chosen Option :	4



Q.1

0

Refer to the following number and symbol series and answer the question that follows.  
Counting to be done from left to right only. All numbers are single-digit numbers.  
  
(Left) 2 # ! 3 4 @ \* \$ 5 1 = + > 8 9 & \$ (Right)  
  
How many such symbols are there, each of which is immediately preceded by a number and immediately followed by another symbol?

Ans

✖

1. Three

✖

2. Two

✖

3. One

✔

4. Four

Question ID :	44100938963
Option 1 ID :	441009155402
Option 2 ID :	441009155401
Option 3 ID :	441009155400
Option 4 ID :	441009155399
Status :	Answered
Chosen Option :	4

Q.1

1

What should come in place of the question mark (?) in the given series based on the English alphabetical order?  
  
BDF EFI HHL KJO ?

Ans

✖

1. FKJ

✖

2. RNJ

✖

3. NHY

✔

4. NLR

Question ID :	44100938990
Option 1 ID :	441009155510
Option 2 ID :	441009155508
Option 3 ID :	441009155509
Option 4 ID :	441009155507
Status :	Answered
Chosen Option :	4

Q.1

2

What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged, and 'x' and '÷' are interchanged?  
  
 $47 \div 48 \times 2,256 + 513 - 518 = ?$

Ans

✔

1. 6

✖

2. -4

✖

3. 4

✖

4. 5

Question ID :	44100940282
Option 1 ID :	441009160646
Option 2 ID :	441009160645
Option 3 ID :	441009160644
Option 4 ID :	441009160647
Status :	Answered
Chosen Option :	1

Q.1 3 Seven boxes E, F, G, H, I, J and K are kept one over the other but not necessarily in the same order. K is kept immediately below E and immediately above F. G is kept immediately below F and immediately above I. J is kept immediately below I. H is kept immediately above E. Which box is kept at the bottommost position of the pile?

- Ans ☒ 1. H
- ☒ 2. K
- ☒ 3. G
- ☒ 4. J

Question ID :	44100938932
Option 1 ID :	441009155275
Option 2 ID :	441009155278
Option 3 ID :	441009155277
Option 4 ID :	441009155276
Status :	Answered
Chosen Option :	4

Q.1 4 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

JDC:PJI  
MHE:SNK

- Ans ☒ 1. FBD:JFH
- ☒ 2. RSO:XYU
- ☒ 3. GKN:HLO
- ☒ 4. JFH:PNN

Question ID :	44100939814
Option 1 ID :	441009158785
Option 2 ID :	441009158786
Option 3 ID :	441009158788
Option 4 ID :	441009158787
Status :	Answered
Chosen Option :	2

Q.1 5 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

(LEFT) 1 # 2 4 & 8 ! 3 => 6 + 5 / \$ 7 - 9 (RIGHT)

If all the numbers are dropped from the series, which of the following will be 4<sup>th</sup> from the left?

- Ans ☒ 1. !
- ☒ 2. \$
- ☒ 3. =
- ☒ 4. +

Question ID :	44100938964
Option 1 ID :	441009155406
Option 2 ID :	441009155405
Option 3 ID :	441009155403
Option 4 ID :	441009155404
Status :	Answered
Chosen Option :	3

Q.1	Find the third proportional of 48 and 120.
Ans	<input checked="" type="checkbox"/> 1. 350
	<input checked="" type="checkbox"/> 2. 200
	<input checked="" type="checkbox"/> 3. 250
	<input checked="" type="checkbox"/> 4. 300

Question ID :	44100956866
Option 1 ID :	441009226292
Option 2 ID :	441009226289
Option 3 ID :	441009226290
Option 4 ID :	441009226291
Status :	Answered
Chosen Option :	4

Q.2	A train covered first 640 km at a speed of 160 km/hr and then covered the remaining 960 km at a speed of 120 km/hr. Find its average speed (in km/hr).
Ans	<input checked="" type="checkbox"/> 1. $131\frac{1}{3}$
	<input checked="" type="checkbox"/> 2. $133\frac{1}{3}$
	<input checked="" type="checkbox"/> 3. $130\frac{1}{3}$
	<input checked="" type="checkbox"/> 4. $132\frac{1}{3}$

Question ID :	44100955057
Option 1 ID :	441009219189
Option 2 ID :	441009219191
Option 3 ID :	441009219188
Option 4 ID :	441009219190
Status :	Answered
Chosen Option :	2

Q.3	A sum of ₹6,00,000 becomes ₹6,84,699.68 in n years at an annual compound interest rate of 4.5%, compounded annually. What is the value of n? (Rounded to the nearest integer.)
Ans	<input checked="" type="checkbox"/> 1. 3
	<input checked="" type="checkbox"/> 2. 6
	<input checked="" type="checkbox"/> 3. 7
	<input checked="" type="checkbox"/> 4. 5

Question ID :	44100949534
Option 1 ID :	441009197408
Option 2 ID :	441009197410
Option 3 ID :	441009197411
Option 4 ID :	441009197409
Status :	Answered
Chosen Option :	1

Q.4 Water in a rectangular reservoir with a base measuring 54 metres by 40 metres and a depth of 3.5 metres needs to be emptied. If the water flows out through a pipe with a square cross-section of side 10 cm at a rate of 7.2 km/hr, how long will it take to empty the reservoir?

- Ans ☒ 1. 105 hours
- ☐ 2. 90 hours
- ☐ 3. 98 hours
- ☐ 4. 100 hours

Question ID : 44100952317

Option 1 ID : 441009208386

Option 2 ID : 441009208383

Option 3 ID : 441009208384

Option 4 ID : 441009208385

Status : Answered

Chosen Option : 1

Q.5 A person purchased 15 litres of petrol in a container at ₹110 per litre but forgot to close the container with a lid. As a result, 20% of the petrol evaporated. At what price should he sell the remaining petrol to earn a 10% profit?

- Ans ☐ 1. ₹163.23
- ☒ 2. ₹151.25
- ☐ 3. ₹130.33
- ☐ 4. ₹140.59

Question ID : 44100951703

Option 1 ID : 441009205967

Option 2 ID : 441009205966

Option 3 ID : 441009205964

Option 4 ID : 441009205965

Status : Answered

Chosen Option : 2

Q.6 A group of 20 workers is assigned to complete a project in 30 days. However, after 10 days, 10 workers leave the team permanently. In how long will the remaining project be completed?

- Ans ☐ 1. 10 days
- ☐ 2. 30 days
- ☒ 3. 40 days
- ☐ 4. 20 days

Question ID : 44100952123

Option 1 ID : 441009207611

Option 2 ID : 441009207613

Option 3 ID : 441009207614

Option 4 ID : 441009207612

Status : Answered

Chosen Option : 3

Q.7	Find the simple interest for a period of 5 years at the rate of 8% per annum for a principal of ₹65,000.
Ans	✓ 1. ₹26,000
	✗ 2. ₹25,000
	✗ 3. ₹28,000
	✗ 4. ₹29,000

Question ID :	44100953444
Option 1 ID :	441009212767
Option 2 ID :	441009212766
Option 3 ID :	441009212768
Option 4 ID :	441009212769
Status :	Answered
Chosen Option :	1

Q.8	A company increases the salaries of its employees by 10% in the first year, 15% in the second year, and 5% in the third year. If an employee's salary after three years is ₹1,59,390, then what was his initial salary?
Ans	✗ 1. ₹1,15,600
	✓ 2. ₹1,20,000
	✗ 3. ₹1,12,750
	✗ 4. ₹1,05,310

Question ID :	44100951685
Option 1 ID :	441009205894
Option 2 ID :	441009205895
Option 3 ID :	441009205893
Option 4 ID :	441009205892
Status :	Answered
Chosen Option :	2

Q.9	What is the mean proportional between $(9 + 3\sqrt{3})$ and $(18 - 6\sqrt{3})$ ?
Ans	✗ 1. $5\sqrt{3}$
	✗ 2. $4\sqrt{3}$
	✓ 3. $6\sqrt{3}$
	✗ 4. $2\sqrt{3}$

Question ID :	44100956857
Option 1 ID :	441009226255
Option 2 ID :	441009226254
Option 3 ID :	441009226256
Option 4 ID :	441009226253
Status :	Answered
Chosen Option :	3

Q.1 0	What is the equivalent common fraction form of $0.\overline{2} + 0.125$ ?
Ans	<div><div>✓ 1.</div><div><math>\frac{25}{72}</math></div></div>
	<div><div>✗ 2.</div><div><math>\frac{24}{61}</math></div></div>
	<div><div>✗ 3.</div><div><math>\frac{13}{18}</math></div></div>
	<div><div>✗ 4.</div><div><math>\frac{19}{43}</math></div></div>

Question ID :	44100951573
Option 1 ID :	441009205443
Option 2 ID :	441009205442
Option 3 ID :	441009205440
Option 4 ID :	441009205441
Status :	Answered
Chosen Option :	1

Q.1 1	A shopkeeper makes a net profit of 71% on selling an article at success. Find the net profit percentage, if the shopkeeper sells the same article
Ans	<div><div>✓ 1.</div><div>85%</div></div>
	<div><div>✗ 2.</div><div>75%</div></div>
	<div><div>✗ 3.</div><div>80%</div></div>
	<div><div>✗ 4.</div><div>70%</div></div>

Question ID :	441009188294
Option 1 ID :	441009743067
Option 2 ID :	441009743065
Option 3 ID :	441009743066
Option 4 ID :	441009743064
Status :	Answered
Chosen Option :	2

Q.1 2	The average of 5, 6, 4, 12, 8, 10, 16, 14, 9, 20, 18, 22, 15, and K is 16. Find K's value.
Ans	<div><div>✓ 1.</div><div>65</div></div>
	<div><div>✗ 2.</div><div>62</div></div>
	<div><div>✗ 3.</div><div>58</div></div>
	<div><div>✗ 4.</div><div>54</div></div>

Question ID :	44100953367
Option 1 ID :	441009212463
Option 2 ID :	441009212462
Option 3 ID :	441009212461
Option 4 ID :	441009212460
Status :	Answered
Chosen Option :	1

Q.1 3	Find the value of x, when $22^{-17} \times 22^{(3x+14)} = 22^{16} \div 22^{10}$ .
Ans	<input type="radio"/> 1. 4
	<input type="radio"/> 2. 5
	<input checked="" type="radio"/> 3. 3
	<input type="radio"/> 4. 2

Question ID :	44100949404
Option 1 ID :	441009196898
Option 2 ID :	441009196899
Option 3 ID :	441009196897
Option 4 ID :	441009196896
Status :	Answered
Chosen Option :	3

Q.1 4	Two spheres made of the same metal weigh 1 kg and 3.5 kg. The smaller sphere has a radius of 1.5 cm. Both spheres are melted and reshaped into a single larger sphere. What is the cube of the radius of the newly formed sphere? (Use Mass = Density $\times$ Volume, rounded off to the nearest integer.)
Ans	<input checked="" type="radio"/> 1. 15
	<input type="radio"/> 2. 13
	<input type="radio"/> 3. 11
	<input type="radio"/> 4. 18

Question ID :	44100952350
Option 1 ID :	441009208498
Option 2 ID :	441009208497
Option 3 ID :	441009208496
Option 4 ID :	441009208499
Status :	Answered
Chosen Option :	3

Q.1 5	Kuldeep can swim with a speed of 10 km/hr in still water. If the speed of the stream is 4 km/hr, what will be the time taken by Kuldeep to go 98 km downstream?
Ans	<input type="radio"/> 1. 6 hours
	<input type="radio"/> 2. 5 hours
	<input checked="" type="radio"/> 3. 7 hours
	<input type="radio"/> 4. 8 hours

Question ID :	44100954996
Option 1 ID :	441009218954
Option 2 ID :	441009218953
Option 3 ID :	441009218955
Option 4 ID :	441009218956
Status :	Answered
Chosen Option :	3

Q.1	Select the INCORRECTLY spelt word.
Ans	<input checked="" type="checkbox"/> 1. Cacophony
	<input checked="" type="checkbox"/> 2. Unnecessary
	<input checked="" type="checkbox"/> 3. Embarrassment
	<input checked="" type="checkbox"/> 4. Bougeoise

Question ID :	44100965297
Option 1 ID :	441009260211
Option 2 ID :	441009260209
Option 3 ID :	441009260212
Option 4 ID :	441009260210
Status :	Answered
Chosen Option :	4

Q.2	Select the most appropriate meaning of the given word.
	Nefarious
Ans	<input checked="" type="checkbox"/> 1. Scrupulous
	<input checked="" type="checkbox"/> 2. Pernicious
	<input checked="" type="checkbox"/> 3. Sublime
	<input checked="" type="checkbox"/> 4. Virtuous

Question ID :	44100965379
Option 1 ID :	441009260518
Option 2 ID :	441009260517
Option 3 ID :	441009260520
Option 4 ID :	441009260519
Status :	Answered
Chosen Option :	2

Q.3	Select the most appropriate verb to fill in the blank.
	Can you ____ me where he lives?
Ans	<input checked="" type="checkbox"/> 1. suggest
	<input checked="" type="checkbox"/> 2. write
	<input checked="" type="checkbox"/> 3. ask
	<input checked="" type="checkbox"/> 4. tell

Question ID :	44100951362
Option 1 ID :	441009204593
Option 2 ID :	441009204594
Option 3 ID :	441009204592
Option 4 ID :	441009204591
Status :	Answered
Chosen Option :	4



Q.4 Select the most appropriate meaning of the given idiom.

Bite the bullet

- Ans ☒ 1. Doing something in an easier and least expensive manner
- ☒ 2. Finish something no matter how unsatisfying or unpleasant it is
- ☒ 3. Stuck in a difficult circumstance with no escape
- ☒ 4. Doing something that has never been done before

Question ID :	44100951357
Option 1 ID :	441009204574
Option 2 ID :	441009204572
Option 3 ID :	441009204571
Option 4 ID :	441009204573
Status :	Answered
Chosen Option :	2

Q.5 Select the most appropriate form of the past tense that can substitute the underlined segment to rectify the given sentence.

By the time I reached the station, the train already left.

- Ans ☒ 1. had already left
- ☒ 2. was already leaving
- ☒ 3. have already left
- ☒ 4. has already left

Question ID :	44100964739
Option 1 ID :	441009257904
Option 2 ID :	441009257906
Option 3 ID :	441009257905
Option 4 ID :	441009257903
Status :	Answered
Chosen Option :	1

Q.6 Select the most appropriate meaning of the given idiom.

Cold feet

- Ans ☒ 1. Becoming nervous
- ☒ 2. To have patience
- ☒ 3. Not feeling good
- ☒ 4. Going to sleep

Question ID :	44100951347
Option 1 ID :	441009204531
Option 2 ID :	441009204534
Option 3 ID :	441009204532
Option 4 ID :	441009204533
Status :	Answered
Chosen Option :	1

Q.7	Select the option that can be used as a one-word substitute for the given group of words. A study of election trends
Ans	<input checked="" type="checkbox"/> 1. Acoustics
	<input checked="" type="checkbox"/> 2. Philology
	<input checked="" type="checkbox"/> 3. Theology
	<input checked="" type="checkbox"/> 4. Psephology

Question ID :	44100946570
Option 1 ID :	441009185433
Option 2 ID :	441009185434
Option 3 ID :	441009185431
Option 4 ID :	441009185432
Status :	Answered
Chosen Option :	4

Q.8	Select the most appropriate option to fill in the blanks.  Although Jane had practised the dance routine for weeks, she still felt _____ than her teammates, who seemed to move with _____ grace.
Ans	<input checked="" type="checkbox"/> 1. clumsy; more effortless
	<input checked="" type="checkbox"/> 2. clumsier; effortless
	<input checked="" type="checkbox"/> 3. clumsy; effortless
	<input checked="" type="checkbox"/> 4. clumsiest; more effortless

Question ID :	44100965055
Option 1 ID :	441009259252
Option 2 ID :	441009259249
Option 3 ID :	441009259251
Option 4 ID :	441009259250
Status :	Answered
Chosen Option :	2

Q.9	Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.  A. For centuries, humans have tried to master the art of flight. B. It was not until the early 20 <sup>th</sup> century that the dream was realised with the invention of the airplane. C. Despite numerous attempts, many of these efforts ended in failure. D. Today, aviation is one of the most important modes of transportation.
Ans	<input checked="" type="checkbox"/> 1. BCAD
	<input checked="" type="checkbox"/> 2. DABC
	<input checked="" type="checkbox"/> 3. CBAD
	<input checked="" type="checkbox"/> 4. BACD

Question ID :	44100957313
Option 1 ID :	441009228120
Option 2 ID :	441009228121
Option 3 ID :	441009228119
Option 4 ID :	441009228122
Status :	Answered
Chosen Option :	4

Q.1 0	Select the INCORRECTLY spelt word.
Ans	<div>✗ 1. Referred</div>
	<div>✗ 2. Occurrence</div>
	<div>✗ 3. Acknowledgment</div>
	<div>✓ 4. Supersede</div>

Question ID :	44100965287
Option 1 ID :	441009260168
Option 2 ID :	441009260167
Option 3 ID :	441009260166
Option 4 ID :	441009260165
Status :	Answered
Chosen Option :	4

Q.1 1	Select the option that can be used as a one-word substitute for the given group of words. One who demands strict conformity to rules
Ans	<div>✓ 1. Martinet</div>
	<div>✗ 2. Ophthalmologist</div>
	<div>✗ 3. Endodontist</div>
	<div>✗ 4. Omnipotent</div>

Question ID :	44100946576
Option 1 ID :	441009185457
Option 2 ID :	441009185456
Option 3 ID :	441009185455
Option 4 ID :	441009185458
Status :	Answered
Chosen Option :	1

Q.1 2	Identify the option that rectifies the given sentence to make it grammatically correct. He never come here again.
Ans	<div>✓ 1. comes</div>
	<div>✗ 2. would come</div>
	<div>✗ 3. coming</div>
	<div>✗ 4. came</div>

Question ID :	44100947055
Option 1 ID :	441009187339
Option 2 ID :	441009187341
Option 3 ID :	441009187342
Option 4 ID :	441009187340
Status :	Answered
Chosen Option :	4

Q.1  
3

Select the most appropriate article to fill in the blank. If no article is needed, select 'No article required'.  
  
The dictator's reign was characterised by a totalitarian form of government, where he controlled every aspect of life in \_\_\_\_\_ country.

Ans

✗

1. an

✗

2. a

✓

3. the

✗

4. No article required

Question ID :	44100960481
Option 1 ID :	441009240884
Option 2 ID :	441009240883
Option 3 ID :	441009240885
Option 4 ID :	441009240886
Status :	Answered
Chosen Option :	3

Q.1  
4

Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.  
  
A. Despite the significant benefits of globalisation, it has also exacerbated inequality, with wealth becoming concentrated in fewer hands.  
B. On the other hand, critics of globalisation argue that it has led to the erosion of local cultures and industries.  
C. Globalisation has led to unprecedented economic growth, connecting markets and fostering innovation on a global scale.  
D. Furthermore, it has had an uneven impact on different regions, leaving some countries struggling to adapt to rapidly changing global dynamics.

Ans

✗

1. CDBA

✓

2. CDAB

✗

3. DBCA

✗

4. ABCD

Question ID :	44100957340
Option 1 ID :	441009228187
Option 2 ID :	441009228189
Option 3 ID :	441009228190
Option 4 ID :	441009228188
Status :	Answered
Chosen Option :	1

Q.1  
5

Select the most appropriate ANTONYM of the given word.  
  
Trivial

Ans

✗

1. Obvious

✗

2. Unimportant

✗

3. Insignificant

✓

4. Important

Question ID :	44100965325
Option 1 ID :	441009260319
Option 2 ID :	441009260318
Option 3 ID :	441009260320
Option 4 ID :	441009260317
Status :	Answered
Chosen Option :	4

Comprehension:

Read the given passage and answer the questions that follow.

The First Wave of Feminism, emerging in the late 19<sup>th</sup> and early 20<sup>th</sup> centuries, was a pioneering movement advocating for women's legal and political rights. Rooted in Enlightenment ideals of equality and justice, this wave primarily focused on suffrage, property rights and access to education. Leaders like Susan B. Anthony, Elizabeth Cady Stanton and Emmeline Pankhurst played pivotal roles in mobilising women through writings, speeches and organised protests. The Seneca Falls Convention of 1848, often seen as the catalyst for the movement, produced the Declaration of Sentiments, demanding equal rights. Women's relentless activism culminated in landmark victories, such as the passage of the Nineteenth Amendment in the United States and the Representation of the People Act in Britain. Despite its successes, the movement was criticised for primarily addressing the concerns of white, middle-class women, often neglecting the experiences of women of colour and the working class. However, the First Wave laid the foundation for subsequent feminist movements, shaping future struggles for gender equality. Its achievements inspired later waves of feminism, which sought to address broader issues such as workplace rights, reproductive freedom and intersectionality. The First Wave remains a crucial chapter in the ongoing fight for women's empowerment.

SubQuestion No : 16

Q.1 Which word is the ANTONYM of 'pioneering' as used in the passage?

6

Ans

✗ 1. Revolutionary

✗ 2. Progressive

✗ 3. Innovative

✓ 4. Traditional

Question ID :	44100934586
Option 1 ID :	441009137740
Option 2 ID :	441009137741
Option 3 ID :	441009137739
Option 4 ID :	441009137738
Status :	Answered
Chosen Option :	4

Comprehension:
Read the given passage and answer the questions that follow.
<p>The First Wave of Feminism, emerging in the late 19<sup>th</sup> and early 20<sup>th</sup> centuries, was a pioneering movement advocating for women's legal and political rights. Rooted in Enlightenment ideals of equality and justice, this wave primarily focused on suffrage, property rights and access to education. Leaders like Susan B. Anthony, Elizabeth Cady Stanton and Emmeline Pankhurst played pivotal roles in mobilising women through writings, speeches and organised protests. The Seneca Falls Convention of 1848, often seen as the catalyst for the movement, produced the Declaration of Sentiments, demanding equal rights. Women's relentless activism culminated in landmark victories, such as the passage of the Nineteenth Amendment in the United States and the Representation of the People Act in Britain. Despite its successes, the movement was criticised for primarily addressing the concerns of white, middle-class women, often neglecting the experiences of women of colour and the working class. However, the First Wave laid the foundation for subsequent feminist movements, shaping future struggles for gender equality. Its achievements inspired later waves of feminism, which sought to address broader issues such as workplace rights, reproductive freedom and intersectionality. The First Wave remains a crucial chapter in the ongoing fight for women's empowerment.</p>

SubQuestion No : 17
Q.1 Which of the following was NOT a major focus of the First Wave of Feminism?
7
Ans
✗ 1. Equal access to education
✗ 2. Property rights
✗ 3. Women's suffrage
✓ 4. Workplace discrimination laws

Question ID :	44100934584
Option 1 ID :	441009137731
Option 2 ID :	441009137733
Option 3 ID :	441009137730
Option 4 ID :	441009137732
Status :	Answered
Chosen Option :	4

Comprehension:
Read the given passage and answer the questions that follow.
<p>The First Wave of Feminism, emerging in the late 19<sup>th</sup> and early 20<sup>th</sup> centuries, was a pioneering movement advocating for women's legal and political rights. Rooted in Enlightenment ideals of equality and justice, this wave primarily focused on suffrage, property rights and access to education. Leaders like Susan B. Anthony, Elizabeth Cady Stanton and Emmeline Pankhurst played pivotal roles in mobilising women through writings, speeches and organised protests. The Seneca Falls Convention of 1848, often seen as the catalyst for the movement, produced the Declaration of Sentiments, demanding equal rights. Women's relentless activism culminated in landmark victories, such as the passage of the Nineteenth Amendment in the United States and the Representation of the People Act in Britain. Despite its successes, the movement was criticised for primarily addressing the concerns of white, middle-class women, often neglecting the experiences of women of colour and the working class. However, the First Wave laid the foundation for subsequent feminist movements, shaping future struggles for gender equality. Its achievements inspired later waves of feminism, which sought to address broader issues such as workplace rights, reproductive freedom and intersectionality. The First Wave remains a crucial chapter in the ongoing fight for women's empowerment.</p>

SubQuestion No : 18
Q.1 What is the tone of the passage?
8
Ans
<div>✗ 1. Sarcastic and dismissive</div>
<div>✗ 2. Romanticised and exaggerated</div>
<div>✗ 3. Passionate and biased</div>
<div>✓ 4. Neutral and historical</div>

Question ID :	44100934583
Option 1 ID :	441009137727
Option 2 ID :	441009137729
Option 3 ID :	441009137728
Option 4 ID :	441009137726
Status :	Answered
Chosen Option :	4

	<b>Comprehension:</b>
	Read the given passage and answer the questions that follow.
	The First Wave of Feminism, emerging in the late 19 <sup>th</sup> and early 20 <sup>th</sup> centuries, was a pioneering movement advocating for women's legal and political rights. Rooted in Enlightenment ideals of equality and justice, this wave primarily focused on suffrage, property rights and access to education. Leaders like Susan B. Anthony, Elizabeth Cady Stanton and Emmeline Pankhurst played pivotal roles in mobilising women through writings, speeches and organised protests. The Seneca Falls Convention of 1848, often seen as the catalyst for the movement, produced the Declaration of Sentiments, demanding equal rights. Women's relentless activism culminated in landmark victories, such as the passage of the Nineteenth Amendment in the United States and the Representation of the People Act in Britain. Despite its successes, the movement was criticised for primarily addressing the concerns of white, middle-class women, often neglecting the experiences of women of colour and the working class. However, the First Wave laid the foundation for subsequent feminist movements, shaping future struggles for gender equality. Its achievements inspired later waves of feminism, which sought to address broader issues such as workplace rights, reproductive freedom and intersectionality. The First Wave remains a crucial chapter in the ongoing fight for women's empowerment.

	<b>SubQuestion No : 19</b>
<b>Q.1</b>	<b>Which title best captures the essence of the passage?</b>
<b>9</b>	
<b>Ans</b>	<div><div>✗</div>1. Women's Struggles in the 21<sup>st</sup> Century</div>
	<div><div>✗</div>2. The Political Impact of the Nineteenth Amendment</div>
	<div><div>✓</div>3. The First Wave of Feminism: A Fight for Equality</div>
	<div><div>✗</div>4. The Evolution of Modern Feminism</div>

Question ID :	44100934582
Option 1 ID :	441009137725
Option 2 ID :	441009137722
Option 3 ID :	441009137724
Option 4 ID :	441009137723
Status :	Answered
Chosen Option :	3



Comprehension:
Read the given passage and answer the questions that follow.
The First Wave of Feminism, emerging in the late 19 <sup>th</sup> and early 20 <sup>th</sup> centuries, was a pioneering movement advocating for women's legal and political rights. Rooted in Enlightenment ideals of equality and justice, this wave primarily focused on suffrage, property rights and access to education. Leaders like Susan B. Anthony, Elizabeth Cady Stanton and Emmeline Pankhurst played pivotal roles in mobilising women through writings, speeches and organised protests. The Seneca Falls Convention of 1848, often seen as the catalyst for the movement, produced the Declaration of Sentiments, demanding equal rights. Women's relentless activism culminated in landmark victories, such as the passage of the Nineteenth Amendment in the United States and the Representation of the People Act in Britain. Despite its successes, the movement was criticised for primarily addressing the concerns of white, middle-class women, often neglecting the experiences of women of colour and the working class. However, the First Wave laid the foundation for subsequent feminist movements, shaping future struggles for gender equality. Its achievements inspired later waves of feminism, which sought to address broader issues such as workplace rights, reproductive freedom and intersectionality. The First Wave remains a crucial chapter in the ongoing fight for women's empowerment.

SubQuestion No : 20
Q.20 What can be inferred about the limitations of the First Wave of Feminism?
Ans <div><div>✖</div>1. It was largely ineffective and failed to achieve its goals.</div>
<div><div>✖</div>2. It successfully addressed all issues of gender inequality.</div>
<div><div>✖</div>3. It did not influence later feminist movements.</div>
<div><div>✔</div>4. It only benefited elite women and ignored other marginalised groups.</div>

Question ID :	44100934585
Option 1 ID :	441009137736
Option 2 ID :	441009137735
Option 3 ID :	441009137737
Option 4 ID :	441009137734
Status :	Not Answered
Chosen Option :	--

Section : Part B Discipline related

Q.1 According to the kinetic interpretation of temperature, what happens to an ideal gas at absolute zero temperature i.e. 0 K?
Ans <div><div>✔</div>1. The motion of gas molecules completely stops.</div>
<div><div>✖</div>2. The average kinetic energy of gas molecules is maximum.</div>
<div><div>✖</div>3. The intermolecular collisions become more frequent.</div>
<div><div>✖</div>4. The potential energy of gas molecules is at its peak.</div>

Question ID :	441009130334
Option 1 ID :	441009517728
Option 2 ID :	441009517727
Option 3 ID :	441009517730
Option 4 ID :	441009517729
Status :	Answered
Chosen Option :	1

Q.2 Which of the following materials is commonly used as a pentavalent impurity in n-type semiconductors?

- Ans ☒ 1. Gallium
- ☒ 2. Boron
- ☒ 3. Indium
- ☒ 4. Phosphorus

Question ID :	44100992518
Option 1 ID :	441009367792
Option 2 ID :	441009367789
Option 3 ID :	441009367790
Option 4 ID :	441009367791
Status :	Answered
Chosen Option :	4

Q.3 The frequency of X-rays is less than the frequency of:

- Ans ☒ 1. microwaves
- ☒ 2. gamma rays
- ☒ 3. ultraviolet rays
- ☒ 4. radio waves

Question ID :	441009135075
Option 1 ID :	441009536926
Option 2 ID :	441009536924
Option 3 ID :	441009536925
Option 4 ID :	441009536927
Status :	Answered
Chosen Option :	2

Q.4 If  $\cot(x) = -\frac{5}{12}$ ,  $x$  lies in the second quadrant, then which of the follo

- Ans ☒ 1.  $\sec(x) = -\frac{13}{5}$
- ☒ 2.  $\sec(x) = \frac{13}{5}$
- ☒ 3.  $\cos(x) = -\frac{12}{5}$
- ☒ 4.  $\cos(x) = -\frac{13}{5}$

Question ID :	441009143426
Option 1 ID :	441009569723
Option 2 ID :	441009569724
Option 3 ID :	441009569725
Option 4 ID :	441009569726
Status :	Answered
Chosen Option :	1

Q.5	A battery with an EMF of 25 V and an internal resistance of $2\ \Omega$ is connected to a $4\ \Omega$ and $12\ \Omega$ resistor in parallel. What will be the total current drawn from the battery?
Ans	<input checked="" type="checkbox"/> 1. 5 A
	<input type="checkbox"/> 2. 3 A
	<input type="checkbox"/> 3. 1.5 A
	<input type="checkbox"/> 4. 10 A

Question ID :	441009130446
Option 1 ID :	441009518198
Option 2 ID :	441009518197
Option 3 ID :	441009518195
Option 4 ID :	441009518196
Status :	Answered
Chosen Option :	1

Q.6	The gravitational force between two bodies of the same mass $m$ kept at a distance ' $d$ ' apart is $X$ . If the mass of both the bodies is doubled, then what should be the new distance ( $d'$ ) between the two bodies so that the gravitational force between the bodies remains $X$ ?
Ans	<input checked="" type="checkbox"/> 1. $d' = 2d$
	<input type="checkbox"/> 2. $d' = d/2$
	<input type="checkbox"/> 3. $d' = 4d$
	<input type="checkbox"/> 4. $d' = d/4$

Question ID :	441009110012
Option 1 ID :	441009438520
Option 2 ID :	441009438522
Option 3 ID :	441009438521
Option 4 ID :	441009438523
Status :	Answered
Chosen Option :	1

Q.7	A light ray is incident on a smooth plane mirror at an angle $(90^\circ - \theta)$ with the mirror's surface. If the same ray were to strike the mirror at an angle $2\theta$ with the normal instead, how much would the angle of reflection change?
Ans	<input type="checkbox"/> 1. Depends on the wavelength of light
	<input checked="" type="checkbox"/> 2. $\theta$
	<input type="checkbox"/> 3. $2\theta$
	<input type="checkbox"/> 4. No change

Question ID :	441009116339
Option 1 ID :	441009462791
Option 2 ID :	441009462788
Option 3 ID :	441009462789
Option 4 ID :	441009462790
Status :	Answered
Chosen Option :	2

Q.8 Which of the following is a non-empty finite set?

Ans ☒ 1.  $C = \{x: x \in \mathbb{N} \text{ and } x^2 = 4\}$

☐ 2.  $D = \{x: x^2 - 2 = 0 \text{ and } x \text{ is a rational number}\}$

☐ 3.

$A = \{x \in \mathbb{N} \text{ and } 2x - 1 = 0\}$

☐ 4.  $B = \{x: x \text{ is an even prime number greater than } 2\}$

Question ID : 441009118600

Option 1 ID : 441009471556

Option 2 ID : 441009471557

Option 3 ID : 441009471554

Option 4 ID : 441009471555

Status : Answered

Chosen Option : 1

Q.9 For an isothermal process, the work done 'W' in case of an ideal gas is given by:  
(Symbols have their usual meanings)

Ans ☐ 1.  $W = \frac{PV}{T_2 - T_1}$

☐ 2.  $W = nRT \ln P_1 P_2$

☒ 3.  $W = nRT \ln \frac{V_2}{V_1}$

☐ 4.  $W = PV(T_2 - T_1)$

Question ID : 441009149457

Option 1 ID : 441009593582

Option 2 ID : 441009593581

Option 3 ID : 441009593580

Option 4 ID : 441009593583

Status : Answered

Chosen Option : 3

Q.1 Which of the following expressions is true for the effective focal length f for the combination of two thin lenses having focal length  $f_1$  and  $f_2$ ?

Ans ☒ 1.  $f = \frac{f_1 f_2}{f_1 + f_2}$

☐ 2.  $f = \frac{f_1 - f_2}{f_1 f_2}$

☐ 3.  $f = \frac{f_1 f_2}{f_1 - f_2}$

☐ 4.  $f = \frac{f_1 + f_2}{f_1 f_2}$

Question ID : 441009145760

Option 1 ID : 441009578943

Option 2 ID : 441009578946

Option 3 ID : 441009578944

Option 4 ID : 441009578945

Status : Answered

Chosen Option : 1

Q.1	A new unit of length is defined such that the speed of light in vacuum is numerically equal to 1 in this unit system. If the SI value of the speed of light is $3 \times 10^8$ m/s, what would be the unit conversion factor from metres to this new unit?
1	
Ans	<div><div>✗</div>1. <math>3.0 \times 10^8</math></div>
	<div><div>✗</div>2. <math>9.0 \times 10^{16}</math></div>
	<div><div>✗</div>3. 0</div>
	<div><div>✓</div>4. <math>\frac{1}{3.0 \times 10^8}</math></div>

Question ID :	441009136959
Option 1 ID :	441009544069
Option 2 ID :	441009544072
Option 3 ID :	441009544071
Option 4 ID :	441009544070
Status :	Answered
Chosen Option :	4

Q.1	Which of the following is a solution for 'r' if $5 \cdot {}^4P_r = 6 \cdot {}^5P_{r-1}$ ?
2	
Ans	<div><div>✗</div>1. 4</div>
	<div><div>✓</div>2. 3</div>
	<div><div>✗</div>3. 6</div>
	<div><div>✗</div>4. 5</div>

Question ID :	441009118792
Option 1 ID :	441009472297
Option 2 ID :	441009472296
Option 3 ID :	441009472295
Option 4 ID :	441009472294
Status :	Answered
Chosen Option :	2

Q.1	$\lim_{x \rightarrow 0} \sin \left( \frac{e^x - x - 1 - \frac{x^2}{2}}{x^2} \right)$ is:
3	
Ans	<div><div>✗</div>1. 1</div>
	<div><div>✓</div>2. 0</div>
	<div><div>✗</div>3. does not exist</div>
	<div><div>✗</div>4. <math>\frac{1}{2}</math></div>

Question ID :	441009106364
Option 1 ID :	441009423479
Option 2 ID :	441009423480
Option 3 ID :	441009423482
Option 4 ID :	441009423481
Status :	Answered
Chosen Option :	2

Q.1  
4 The rectangle with length of non – parallel sides a and b, respectively, fixed circle. The area of rectangle is maximum if:

Ans ☒ 1.  $a = 2b$  or  $b = 2a$

☒ 2.  $a \neq b$

☒ 3.  $a = b$

☒ 4.  $a = b^2$  or  $b = a^2$

Question ID : 441009159295

Option 1 ID : 441009632054

Option 2 ID : 441009632051

Option 3 ID : 441009632052

Option 4 ID : 441009632053

Status : Answered

Chosen Option : 2

Q.1  
5 A person moves 5 m north, then 4 m east, and then 8 m south. What is the total path length and displacement?

Ans ☒ 1. Path length = 7 m; Displacement = 5 m

☒ 2. Path length = 17 m; Displacement = 5 m

☒ 3. Path length = 7 m; Displacement = 3 m

☒ 4. Path length = 17 m; Displacement = 4 m

Question ID : 441009137005

Option 1 ID : 441009544260

Option 2 ID : 441009544257

Option 3 ID : 441009544258

Option 4 ID : 441009544259

Status : Answered

Chosen Option : 2

Q.1  
6 What is the angle  $\theta$  between the pair of lines given by  $\vec{r} = 3\hat{i} + 2\hat{j} - 4\hat{k} + \lambda(\hat{i} + 2\hat{j} + 2\hat{k})$  and  $\vec{r} = 5\hat{i} - 2\hat{j} + \mu(3\hat{i} + 2\hat{j} + 6\hat{k})$ ?

Ans ☒ 1.  $\theta = \cos^{-1}\left(\frac{11}{29}\right)$

☒ 2.  $\theta = \cos^{-1}\left(\frac{19}{21}\right)$

☒ 3.  $\theta = \cos^{-1}\left(\frac{19}{29}\right)$

☒ 4.  $\theta = \cos^{-1}\left(\frac{11}{21}\right)$

Question ID : 441009143639

Option 1 ID : 441009570542

Option 2 ID : 441009570544

Option 3 ID : 441009570541

Option 4 ID : 441009570543

Status : Answered

Chosen Option : 2

Q.1 Find the equation of lines, which make intercepts on the axes whose p  
7 and sum are  $-8$  and  $2$ , respectively.

Ans  $x + 2y = 4$   
☒ 1.  $2x + y = 4$

☒ 2.  $x + 2y = -4$   
 $2x + y = -4$

☒ 3.  $x - 2y = 4$   
 $-2x + y = 4$

☒ 4.  $-x + 2y = 4$   
 $2x - y = 4$

Question ID : 441009157194

Option 1 ID : 441009623955

Option 2 ID : 441009623958

Option 3 ID : 441009623957

Option 4 ID : 441009623956

Status : Answered

Chosen Option : 4

Q.1 A concave lens has a focal length of  $(-12\text{ cm})$ . An object is placed  $18\text{ cm}$  from the lens. What  
8 is the image distance and the magnification?

Ans ☒ 1. Image distance =  $+7.2\text{ cm}$ ; Magnification =  $-0.4$

☒ 2. Image distance =  $-7.2\text{ cm}$ ; Magnification =  $-0.4$

☒ 3. Image distance =  $-7.2\text{ cm}$ ; Magnification =  $0.4$

☒ 4. Image distance =  $+7.2\text{ cm}$ ; Magnification =  $0.4$

Question ID : 441009116305

Option 1 ID : 441009462659

Option 2 ID : 441009462657

Option 3 ID : 441009462656

Option 4 ID : 441009462658

Status : Answered

Chosen Option : 3

Q.1 Two wires of equal length and having radius  $1\text{ cm}$  and  $4\text{ cm}$ , respectively, are made up of  
9 same material. The ratio of the resistance of the wires is given by:

Ans ☒ 1.  $1 : 4$

☒ 2.  $4 : 1$

☒ 3.  $1 : 16$

☒ 4.  $16 : 1$

Question ID : 441009135011

Option 1 ID : 441009536673

Option 2 ID : 441009536674

Option 3 ID : 441009536675

Option 4 ID : 441009536672

Status : Answered

Chosen Option : 4

Q.2  
0 If the matrix  $A = \begin{bmatrix} x & y \\ z & w \end{bmatrix}$  is skew symmetric, then which of the follow

Ans ☒ 1.  $x + w = 0$

☐ 2.  $x + z = 0$

☐ 3.  $x - y = 0$

☐ 4.  $y - z = 0$

Question ID : 441009116763

Option 1 ID : 441009464174

Option 2 ID : 441009464173

Option 3 ID : 441009464171

Option 4 ID : 441009464172

Status : Answered

Chosen Option : 2

Q.2  
1 Which of the following is true?

Ans ☒ 1. Vectors having same magnitude and directions are colinear.

☐ 2. Two vectors having same magnitude are colinear.

☐ 3. Two colinear vectors are always equal in magnitude.

☐ 4. Colinear vectors having same magnitude are equal.

Question ID : 441009118122

Option 1 ID : 441009469655

Option 2 ID : 441009469653

Option 3 ID : 441009469652

Option 4 ID : 441009469654

Status : Answered

Chosen Option : 4

Q.2  
2 If  $(a_n)_{n=1}^{\infty}$  is a Fibonacci sequence, then find  $\sum_{n=1}^6 a_n$ .

Ans ☐ 1. 19

☒ 2. 20

☐ 3. 31

☐ 4. 33

Question ID : 441009154414

Option 1 ID : 441009612827

Option 2 ID : 441009612826

Option 3 ID : 441009612829

Option 4 ID : 441009612828

Status : Answered

Chosen Option : 4



Q.2 3	If the lines $\frac{x-1}{-3} = \frac{y-2}{2k} = \frac{z-3}{2}$ and $\frac{x-1}{3k} = \frac{y-1}{1} = \frac{z-6}{-5}$ are perpendicular, what is the value of k?
Ans	<div>✗ 1. <math>k = -\frac{10}{11}</math></div> <div>✓ 2. <math>k = -\frac{10}{7}</math></div> <div>✗ 3. <math>k = -\frac{7}{10}</math></div> <div>✗ 4. <math>k = -\frac{5}{7}</math></div>

Question ID :	441009143636
Option 1 ID :	441009570531
Option 2 ID :	441009570530
Option 3 ID :	441009570532
Option 4 ID :	441009570529
Status :	Answered
Chosen Option :	2

Q.2 4	A body of mass 4 kg is moved up a rough inclined plane of height 20m. If the total work done in sliding the body up the inclined plane is 1600 J, then how much is the work done against friction? (Take $g = 10\text{m/s}^2$ )
Ans	<div>✓ 1. 800 J</div> <div>✗ 2. 2400 J</div> <div>✗ 3. 1600 J</div> <div>✗ 4. 0 J</div>

Question ID :	441009116443
Option 1 ID :	441009463193
Option 2 ID :	441009463192
Option 3 ID :	441009463194
Option 4 ID :	441009463191
Status :	Answered
Chosen Option :	1

Q.2 5	The capacitance of a parallel plate capacitor with air between the plates of the capacitor is C. Let the area of the plates be A and the distance between the plates be d. If the distance between the plates is reduced to d/4, the capacitance of this capacitor becomes C'. What will be the ratio of C:C'? (Keep the rest of the parameters the same)
Ans	<div>✗ 1. 4:1</div> <div>✗ 2. 1:2</div> <div>✓ 3. 1:4</div> <div>✗ 4. 2:1</div>

Question ID :	441009109747
Option 1 ID :	441009436713
Option 2 ID :	441009436715
Option 3 ID :	441009436716
Option 4 ID :	441009436714
Status :	Answered
Chosen Option :	3

Q.2	Which of the following is an infinite set?
6	
Ans	✓ 1. The set of all rational numbers between 0 and 1
	✗ 2. The set of all leaves on all the trees on earth
	✗ 3. The set of prime numbers less than 99
	✗ 4. The set of all insects on earth

Question ID :	441009118625
Option 1 ID :	441009471653
Option 2 ID :	441009471650
Option 3 ID :	441009471651
Option 4 ID :	441009471652
Status :	Answered
Chosen Option :	1

Q.2	According to Hooke's law:
7	
Ans	✓ 1. stress is directly proportional to strain
	✗ 2. stress is inversely proportional to strain
	✗ 3. stress is directly proportional to the square of strain
	✗ 4. stress is inversely proportional to the square of strain

Question ID :	441009146079
Option 1 ID :	441009580186
Option 2 ID :	441009580188
Option 3 ID :	441009580187
Option 4 ID :	441009580189
Status :	Answered
Chosen Option :	1

Q.2	Which of the following binary operations defined on the set of integers is associative?
8	
Ans	✓ 1. $a*b = \max\{a,b\}$
	✗ 2. $a*b = a^b$
	✗ 3. $a*b = 2a + b$
	✗ 4. $a*b = a - b$

Question ID :	441009143485
Option 1 ID :	441009569960
Option 2 ID :	441009569959
Option 3 ID :	441009569958
Option 4 ID :	441009569957
Status :	Answered
Chosen Option :	2

Q.2	When steam at 100°C is passed into 60 g of water at 10°C, the temperature of water rises to 40°C. What will be the total mass of water (in g) at 40°C?
Ans	<input checked="" type="checkbox"/> 1. 57
	<input checked="" type="checkbox"/> 2. 67
	<input checked="" type="checkbox"/> 3. 4
	<input checked="" type="checkbox"/> 4. 63

Question ID :	441009116289
Option 1 ID :	441009462593
Option 2 ID :	441009462595
Option 3 ID :	441009462592
Option 4 ID :	441009462594
Status :	Answered
Chosen Option :	4

Q.3	Which of the following is the correct unit for the tensile stress acting on a metal wire?
0	
Ans	<input checked="" type="checkbox"/> 1. Nm <sup>2</sup>
	<input checked="" type="checkbox"/> 2. N/m <sup>2</sup>
	<input checked="" type="checkbox"/> 3. Nm
	<input checked="" type="checkbox"/> 4. N/m

Question ID :	441009114641
Option 1 ID :	441009455995
Option 2 ID :	441009455994
Option 3 ID :	441009455996
Option 4 ID :	441009455997
Status :	Answered
Chosen Option :	2

Q.3	The distance between the parallel lines $L_1$ and $L_2$ whose equations are given by
1	$\vec{r} = \vec{a}_1 + \lambda \vec{b}$ $\vec{r} = \vec{a}_2 + \mu \vec{b}$ where $\vec{a}_1$ and $\vec{a}_2$ are the position vectors on $L_1$ and $L_2$ is:
Ans	<input checked="" type="checkbox"/> 1. $\frac{ \vec{b} \times (\vec{a}_2 + \vec{a}_1) }{ \vec{a}_2 \times \vec{a}_1 }$
	<input checked="" type="checkbox"/> 2. $ \vec{b} \times (\vec{a}_2 - \vec{a}_1) $
	<input checked="" type="checkbox"/> 3. $\frac{ \vec{b} \times (\vec{a}_2 - \vec{a}_1) }{ \vec{b} }$
	<input checked="" type="checkbox"/> 4. $\frac{ \vec{b} \times (\vec{a}_2 + \vec{a}_1) }{ \vec{b} }$

Question ID :	441009143580
Option 1 ID :	441009570323
Option 2 ID :	441009570324
Option 3 ID :	441009570321
Option 4 ID :	441009570322
Status :	Answered
Chosen Option :	3

Q.3 2	What will be the maximum speed with which a car can take a turn around a curve of 20 m radius on a level road if the coefficient of friction between the tyres and the road is 0.4? (Take $g = 10 \text{ m/s}^2$ )
Ans	<div><div>✓</div>1. <math>4\sqrt{5} \text{ m/s}</math></div> <div><div>✗</div>2. <math>80 \text{ m/s}</math></div> <div><div>✗</div>3. <math>2\sqrt{5} \text{ m/s}</math></div> <div><div>✗</div>4. <math>20 \text{ m/s}</math></div>

Question ID :	441009110479
Option 1 ID :	441009439493
Option 2 ID :	441009439492
Option 3 ID :	441009439494
Option 4 ID :	441009439495
Status :	Answered
Chosen Option :	1

Q.3 3	Two capacitors of capacitance $3 \mu\text{F}$ and $6 \mu\text{F}$ are connected in series combination. The equivalent capacitance of the system is equal to:
Ans	<div><div>✗</div>1. <math>9 \mu\text{F}</math></div> <div><div>✓</div>2. <math>2 \mu\text{F}</math></div> <div><div>✗</div>3. <math>6 \mu\text{F}</math></div> <div><div>✗</div>4. <math>3 \mu\text{F}</math></div>

Question ID :	441009138325
Option 1 ID :	441009549530
Option 2 ID :	441009549527
Option 3 ID :	441009549529
Option 4 ID :	441009549528
Status :	Answered
Chosen Option :	2

Q.3 4	A conductor is having $n$ number of free electrons. If the charge on each electron is $e$ , mass of each electron is $m$ and $\tau$ is the average time between two successive collisions between the electrons, then which of the following is the correct relation for the conductivity $\sigma$ of the conductor?
Ans	<div><div>✗</div>1. <math>\sigma = \frac{n e \tau^2}{m}</math></div> <div><div>✗</div>2. <math>\sigma = \frac{n e \tau}{m}</math></div> <div><div>✓</div>3. <math>\sigma = \frac{n e^2 \tau}{m}</math></div> <div><div>✗</div>4. <math>\sigma = \frac{n^2 e \tau}{m}</math></div>

Question ID :	441009108447
Option 1 ID :	441009431730
Option 2 ID :	441009431728
Option 3 ID :	441009431731
Option 4 ID :	441009431729
Status :	Answered
Chosen Option :	2

Q.3 In how many ways the letters of the word 'ARRAY' can be arranged without altering the relative position of vowels and consonants?

Ans ☒ 1. 30

☒ 2. 3

☒ 3. 6

☒ 4. 15

Question ID : 441009118479

Option 1 ID : 441009471076

Option 2 ID : 441009471078

Option 3 ID : 441009471079

Option 4 ID : 441009471077

Status : Answered

Chosen Option : 2

Q.3 If the dimensional formula of force is  $[MLT^{-2}]$  and that of energy is  $[ML^2T^{-2}]$ , what is the ratio of the dimensions of force and energy when expressed as  $[M^aL^bT^c]$ ?

Ans ☒ 1.  $[M^0L^1T^0]$

☒ 2.  $[M^0L^{-1}T^0]$

☒ 3.  $[M^1L^1T^1]$

☒ 4.  $[M^{-1}L^{-1}T^{-1}]$

Question ID : 441009136938

Option 1 ID : 441009543986

Option 2 ID : 441009543985

Option 3 ID : 441009543987

Option 4 ID : 441009543988

Status : Answered

Chosen Option : 2

Q.3 What is the distance of the point  $(3, -5)$  from the line  $3x - 4y - 26 = 0$ ?

Ans ☒ 1.  $\frac{2}{5}$

☒ 2.  $\frac{12}{5}$

☒ 3.  $\frac{3}{5}$

☒ 4.  $-\frac{27}{5}$

Question ID : 441009143562

Option 1 ID : 441009570262

Option 2 ID : 441009570261

Option 3 ID : 441009570263

Option 4 ID : 441009570264

Status : Answered

Chosen Option : 2

Q.38 If  $\hat{i}$  and  $\hat{j}$  are the unit vectors along the x and y directions respectively, then what will be the magnitude of  $\hat{i} - \hat{j}$ ?

Ans ☒ 1.  $\sqrt{2}$

☐ 2.  $\frac{1}{\sqrt{2}}$

☐ 3. 2

☐ 4.  $\frac{1}{2}$

Question ID : 441009110252

Option 1 ID : 441009438581

Option 2 ID : 441009438580

Option 3 ID : 441009438582

Option 4 ID : 441009438583

Status : Answered

Chosen Option : 1

Q.39 Express the complex number  $i^5(i^{20} + i^{10})$  in the form  $c + id$ .

Ans ☒ 1. 0

☐ 2. 2

☐ 3. -2

☐ 4. -i

Question ID : 441009152663

Option 1 ID : 441009605808

Option 2 ID : 441009605809

Option 3 ID : 441009605810

Option 4 ID : 441009605807

Status : Answered

Chosen Option : 4

Q.40 The value of  $\frac{2}{1!} + \frac{4}{3!} + \frac{6}{5!} + \dots + \infty$  is:

Ans ☒ 1. e

☐ 2.  $e + 1$

☐ 3.  $e^{-1} + 1$

☐ 4.  $e^{-1}$

Question ID : 44100998082

Option 1 ID : 441009390438

Option 2 ID : 441009390439

Option 3 ID : 441009390440

Option 4 ID : 441009390437

Status : Answered

Chosen Option : 3

Q.4  
1 If  $\int \frac{x^2 \sin(\tan^{-1} x^3)}{1+x^6} dx = f(x) + c$ , then  $f(1) =$  \_\_\_\_\_.

- Ans
- ☒ 1.  $\frac{1}{3\sqrt{2}}$
  - ☒ 2.  $\frac{1}{\sqrt{2}}$
  - ☒ 3.  $-\frac{1}{3\sqrt{2}}$
  - ☒ 4.  $-\frac{1}{\sqrt{2}}$

Question ID :	441009118418
Option 1 ID :	441009470835
Option 2 ID :	441009470832
Option 3 ID :	441009470834
Option 4 ID :	441009470833
Status :	Answered
Chosen Option :	2

Q.4  
2 If  $D_r = \begin{vmatrix} 2r & 1 & n \\ 1 & -2 & 3 \\ 3 & 2 & 1 \end{vmatrix}$ , then  $\sum_{r=1}^n D_r =$  \_\_\_\_\_.

- Ans
- ☒ 1.  $n$
  - ☒ 2.  $0$
  - ☒ 3.  $-1$
  - ☒ 4.  $n^2$

Question ID :	441009107750
Option 1 ID :	441009429011
Option 2 ID :	441009429013
Option 3 ID :	441009429012
Option 4 ID :	441009429014
Status :	Answered
Chosen Option :	3

Q.4  
3 If arcs of the same length in two circles subtend angles  $70^\circ$  and  $120^\circ$  then the ratio of their radii is:

- Ans
- ☒ 1.  $10 : 7$
  - ☒ 2.  $12 : 7$
  - ☒ 3.  $7 : 11$
  - ☒ 4.  $7 : 9$

Question ID :	441009188399
Option 1 ID :	441009743472
Option 2 ID :	441009743471
Option 3 ID :	441009743470
Option 4 ID :	441009743473
Status :	Answered
Chosen Option :	2

Q.4 Two capacitors, 6  $\mu\text{F}$  and 12  $\mu\text{F}$ , are connected in series across a potential difference of 30 V.  
4 What is the voltage across the 12  $\mu\text{F}$  capacitor?

- Ans ☒ 1. 15 V
- ☒ 2. 25 V
- ☒ 3. 10 V
- ☒ 4. 20 V

Question ID :	441009130394
Option 1 ID :	441009517968
Option 2 ID :	441009517970
Option 3 ID :	441009517967
Option 4 ID :	441009517969
Status :	Answered
Chosen Option :	3

Q.4 If sum of an infinite gemetric progression is 6 and its first term is 3, th  
5

- Ans ☒ 1.  $9/16$
- ☒ 2.  $3/8$
- ☒ 3.  $9/8$
- ☒ 4.  $3/4$

Question ID :	441009107672
Option 1 ID :	441009428690
Option 2 ID :	441009428689
Option 3 ID :	441009428687
Option 4 ID :	441009428688
Status :	Answered
Chosen Option :	2

Q.4 What is the value of  $\cos (-1755^\circ) - \sin(45^\circ)$ ?  
6

- Ans ☒ 1. 1
- ☒ 2. 0
- ☒ 3. 2
- ☒ 4.  $1/2$

Question ID :	441009188385
Option 1 ID :	441009743416
Option 2 ID :	441009743415
Option 3 ID :	441009743417
Option 4 ID :	441009743414
Status :	Answered
Chosen Option :	2



Q.4 Find the determinant of the matrix

7 
$$\begin{pmatrix} \sin^3\theta & \cos^3\theta & \tan^3\theta - \cot^2\theta \\ 2\sin\theta & 3\cos\theta\sin\theta & \sec^2\theta + 2 \\ 8\sin\theta & 6\sin(2\theta) & 4\sec^2\theta + 8 \end{pmatrix}.$$

Ans ☒ 1. 1

☒ 2. 0

☒ 3.  $\sin^3\theta + \cos^3\theta$

☒ 4.  $\sin(2\theta)$

Question ID : 441009154829

Option 1 ID : 441009614466

Option 2 ID : 441009614467

Option 3 ID : 441009614469

Option 4 ID : 441009614468

Status : Answered

Chosen Option : 2

Q.4 Evaluate  $\sin\left(-\frac{5\pi}{2}\right) + \sin\left(\frac{3\pi}{2}\right).$

Ans ☒ 1. -2

☒ 2. 0

☒ 3. 2

☒ 4. 1

Question ID : 441009152414

Option 1 ID : 441009604813

Option 2 ID : 441009604811

Option 3 ID : 441009604812

Option 4 ID : 441009604814

Status : Answered

Chosen Option : 1

Q.4  $\lim_{x \rightarrow 0} \frac{x \ln(1 + 2 \tan x)}{1 - \cos x} =$  \_\_\_\_\_.

Ans ☒ 1. 4

☒ 2. 1

☒ 3. does not exist

☒ 4. 2

Question ID : 441009118259

Option 1 ID : 441009470198

Option 2 ID : 441009470196

Option 3 ID : 441009470199

Option 4 ID : 441009470197

Status : Answered

Chosen Option : 3

Q.5 0	The property by virtue of which a body regains its shape and size when external force is removed is known as:
Ans	<div>✗ 1. plasticity</div>
	<div>✓ 2. elasticity</div>
	<div>✗ 3. ductile</div>
	<div>✗ 4. harmonicity</div>

Question ID :	441009146049
Option 1 ID :	441009580067
Option 2 ID :	441009580066
Option 3 ID :	441009580069
Option 4 ID :	441009580068
Status :	Answered
Chosen Option :	2

Q.5 1	Consider an infinitely long straight wire with uniform linear charge density $\lambda$ . The electric field $E$ at a distance $r$ , perpendicular to the length of the wire, is:
Ans	<div>✗ 1. <math>E = \frac{\lambda}{\pi\epsilon_0 r}</math></div>
	<div>✗ 2. <math>E = \frac{\lambda}{4\pi\epsilon_0 r}</math></div>
	<div>✗ 3. <math>E = \frac{\lambda}{8\pi\epsilon_0 r}</math></div>
	<div>✓ 4. <math>E = \frac{\lambda}{2\pi\epsilon_0 r}</math></div>

Question ID :	441009138439
Option 1 ID :	441009549991
Option 2 ID :	441009549993
Option 3 ID :	441009549994
Option 4 ID :	441009549992
Status :	Answered
Chosen Option :	4

Q.5 2	Which of the following materials exhibit behaviour that violates Ohm's law under specific conditions?
Ans	<div>✗ 1. A wire made of copper at room temperature, where the current increases in direct proportion to the applied voltage.</div>
	<div>✓ 2. A semiconductor at low temperatures, where the current does not increase linearly with applied voltage.</div>
	<div>✗ 3. A resistor in a simple circuit with a constant voltage source, where the voltage is proportional to the current.</div>
	<div>✗ 4. A metallic wire at constant temperature, where current increases linearly with applied voltage.</div>

Question ID :	441009130459
Option 1 ID :	441009518274
Option 2 ID :	441009518272
Option 3 ID :	441009518273
Option 4 ID :	441009518271
Status :	Answered
Chosen Option :	2

Q.5 If  ${}^nP_4 = 30 {}^nP_2$ , then  $n =$  \_\_\_\_\_.

- Ans
- ☒ 1. 9
  - ☒ 2. 8
  - ☒ 3. 6
  - ☒ 4. 12

Question ID : 44100998835

Option 1 ID : 441009393437

Option 2 ID : 441009393436

Option 3 ID : 441009393435

Option 4 ID : 441009393438

Status : Answered

Chosen Option : 2

Q.5 Which of the following statements about power is NOT correct?  
4

- Ans
- ☒ 1. Power is the rate of doing work.
  - ☒ 2. Power can be measured in horsepower.
  - ☒ 3. Power is directly proportional to both work done and time taken.
  - ☒ 4. Power depends on both force and velocity.

Question ID : 441009116362

Option 1 ID : 441009462872

Option 2 ID : 441009462874

Option 3 ID : 441009462875

Option 4 ID : 441009462873

Status : Answered

Chosen Option : 3

Q.5 Which of the following conditions is correct for the constructive interference  
5

( $\Delta X$  represents path difference,  $\Delta \phi$  represents phase difference,  $n =$

- Ans
- ☒ 1.  $\Delta X = (2n+1)\lambda/2$  &  $\Delta \phi = (2n+1)\pi$
  - ☒ 2.  $\Delta X = n\lambda$  &  $\Delta \phi = (2n+1)\pi$
  - ☒ 3.  $\Delta X = n\lambda$  &  $\Delta \phi = 2n\pi$
  - ☒ 4.  $\Delta X = (2n+1)\lambda/2$  &  $\Delta \phi = 2n\pi$

Question ID : 441009145661

Option 1 ID : 441009578553

Option 2 ID : 441009578554

Option 3 ID : 441009578551

Option 4 ID : 441009578552

Status : Answered

Chosen Option : 3

Q.5  
6

The set  $\{ x \in \mathbb{R} : x \neq 1 \}$  is a/an \_\_\_\_\_.

Ans

☒ 1. union of three disjoint open intervals

☐ 2. union of four disjoint open intervals

☐ 3. interval

☐ 4. union of two disjoint open intervals

Question ID :	44100998428
Option 1 ID :	441009391823
Option 2 ID :	441009391824
Option 3 ID :	441009391821
Option 4 ID :	441009391822
Status :	Answered
Chosen Option :	2

Q.5  
7

The variance of the following data is \_\_\_\_\_.  
6, 12, 8, 13, 4, 11

Ans

☐ 1. 11.27

☒ 2. 10.66

☐ 3. 9.38

☐ 4. 8.73

Question ID :	441009118182
Option 1 ID :	441009469891
Option 2 ID :	441009469890
Option 3 ID :	441009469888
Option 4 ID :	441009469889
Status :	Answered
Chosen Option :	2

Q.5  
8

Suppose  $l_1$  and  $l_2$  are perpendicular lines such that they intersect at (3, \_\_\_\_\_) to y – axis, then find the equation of the line  $l_2$ .

Ans

☒ 1.  $y = 4$

☐ 2.  $x = 3$

☐ 3.  $y = -4$

☐ 4.  $x = -3$

Question ID :	441009156728
Option 1 ID :	441009622075
Option 2 ID :	441009622076
Option 3 ID :	441009622077
Option 4 ID :	441009622078
Status :	Answered
Chosen Option :	1

Q.5 A body executing simple harmonic motion with an angular velocity of 2 rad/s has a maximum acceleration of 0.8 m/s<sup>2</sup>. What will be the amplitude of the oscillations of the body?

- Ans
- ✗ 1. 5 m
  - ✗ 2. 2 m
  - ✓ 3. 0.2 m
  - ✗ 4. 0.5 m

Question ID :	441009114574
Option 1 ID :	441009455735
Option 2 ID :	441009455734
Option 3 ID :	441009455736
Option 4 ID :	441009455737
Status :	Answered
Chosen Option :	3

Q.6 The law of static friction can be written as:  
(where  $f_s$  is the static friction,  $\mu_s$  is coefficient of static friction and  $N$

- Ans
- ✗ 1.  $f_s \geq \mu_s N$
  - ✗ 2.  $f_s < \mu_s N$
  - ✗ 3.  $f_s > \mu_s N$
  - ✓ 4.  $f_s \leq \mu_s N$

Question ID :	441009145418
Option 1 ID :	441009577618
Option 2 ID :	441009577615
Option 3 ID :	441009577616
Option 4 ID :	441009577617
Status :	Answered
Chosen Option :	1