



भारतीय विमानपत्तन प्राधिकरण  
(मिनी रत्न - श्रेणी - 1 सार्वजनिक क्षेत्र का उद्गम)  
**AIRPORTS AUTHORITY OF INDIA**  
(Schedule - 'A' Mini Ratna - Category - 1 Public Sector Enterprise)


## Section : General Knowledge

Q.1 What is the number of self-help groups of tribal gatherers constituted under the Van Dhan Yojana?

- Ans
- 1. 50
  - 2. 19
  - 3. 5
  - 4. 10

Question ID : 5096471141  
Status : Answered  
Chosen Option : 4

Q.2 Census 2011 was the \_\_\_\_\_ census of its kind which has been conducted in India since 1872.

- Ans
- 1. 14<sup>th</sup>
  - 2. 15<sup>th</sup>
  - 3. 11<sup>th</sup>
  - 4. 16<sup>th</sup>

Question ID : 5096471150  
Status : Answered  
Chosen Option : 4

Q.3 As per the Economic Survey 2017-18, the average decline in rainfall in India between the 1970's and 2000's is \_\_\_\_\_ in the Kharif season.

- Ans
- 1. 36mm
  - 2. 46mm
  - 3. 16mm
  - 4. 26 mm

Question ID : 5096471149  
Status : Answered  
Chosen Option : 3

Q.4 A saltwater lake separated from the sea by the sandbars and spits is called a:

- Ans
- 1. lagoon
  - 2. glacier
  - 3. lake
  - 4. estuary

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Question ID : 5096471148  
Status : Answered  
Chosen Option : 4

Q.5 Who among the following started the newspaper 'Sambad Kaumudi'?

- Ans  1. Raja Ram Mohan Roy  
 2. Shishir Kumar Ghosh  
 3. Rash Bihari Bose  
 4. Ishwar Chandra Vidyasagar

Question ID : 5096471147  
Status : Answered  
Chosen Option : 2

Q.6 \_\_\_\_\_ is the phenomenon of movement of a species from its own habitat to some other habitat for a particular time period every year for a specific purpose like breeding.

- Ans  1. Hibernation  
 2. Mobilisation  
 3. Migration  
 4. Adaptation

Question ID : 5096471144  
Status : Answered  
Chosen Option : 3

Q.7 What was the rank of India in FDI Confidence Index 2018 released by AT Kearney?

- Ans  1. 21<sup>st</sup>  
 2. 51<sup>st</sup>  
 3. 11<sup>th</sup>  
 4. 9<sup>th</sup>

Question ID : 5096471142  
Status : Answered  
Chosen Option : 1

Q.8 Which team won the Indian Premier League 2018 title?

- Ans  1. Chennai Super Kings  
 2. SunRisers Hyderabad  
 3. Royal Challengers Bangalore  
 4. Rajasthan Royals

Question ID : 5096471143  
Status : Answered  
Chosen Option : 3

Q.9 To which state does the Bagh style of textile art printing belong?

- Ans  1. Telangana  
 2. Kerala  
 3. Gujarat

✓ 4. Madhya Pradesh

Question ID : 5096471146  
 Status : Answered  
 Chosen Option : 4

Q.1 According to Article 143 of the Constitution of India, the \_\_\_\_\_ has the power to consult the Supreme Court.

- 0
- Ans
- ✗ 1. Speaker of the Lok Sabha
  - ✗ 2. Prime Minister of India
  - ✗ 3. Governor
  - ✓ 4. President of India

Question ID : 5096471145  
 Status : Answered  
 Chosen Option : 1

Section : General Intelligence

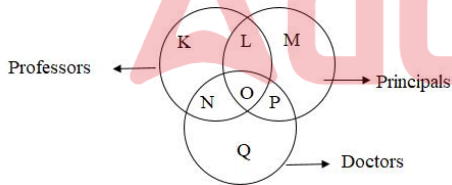
Q.1 Choose the correct alternative that will replace the question mark in the given number series:

7, 23, 47, ?, 119, 167

- Ans
- ✗ 1. 95
  - ✗ 2. 81
  - ✗ 3. 71
  - ✓ 4. 79

Question ID : 5096471158  
 Status : Answered  
 Chosen Option : 4

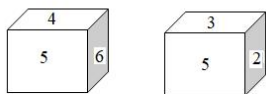
Q.2 In the following Venn diagram, identify the letter that denotes Principals who are also Doctors, but NOT Professors.



- Ans
- ✗ 1. N
  - ✗ 2. O
  - ✓ 3. P
  - ✗ 4. L

Question ID : 5096471154  
 Status : Answered  
 Chosen Option : 3

Q.3 Two positions of the same cube are shown below. Determine which face of the cube will have the hidden number, from these two figures.



- Ans
- ✗ 1. Opposite of '4'

- 2. Opposite of '5'
- 3. Opposite of '3'
- 4. Opposite of '6'

Question ID : 5096471153  
Status : Answered  
Chosen Option : 2

Q.4 Monica has a brother Sukam. Monica's husband, Raunak, is the only brother of Neerja. Esha is Neerja's only niece. How is Esha related to Sukam?

- Ans
- 1. Daughter
  - 2. Niece
  - 3. Sister
  - 4. Cousin

Question ID : 5096471159  
Status : Answered  
Chosen Option : 1

Q.5 If 'JLUGNYUC' is the code for INTIMATE, which word is coded as QPJTBRF?

- Ans
- 1. PRIMATE
  - 2. PRIMAGE
  - 3. PRIVACY
  - 4. PRIVATE

Question ID : 5096471165  
Status : Answered  
Chosen Option : 4

Q.6 Select the option that is different from the other three.

- Ans
- 1. SXUP
  - 2. PVRN
  - 3. FLHD
  - 4. MSOK

Question ID : 5096471157  
Status : Answered  
Chosen Option : 1

Q.7 Select the option that is related to the third term in the same way as the second term is related to the first term.

QNKH : WTQN :: PMJG : ?

- Ans
- 1. VTPM
  - 2. PMVS
  - 3. VSON
  - 4. VSPM

Question ID : 5096471161  
Status : Answered  
Chosen Option : 4

Q.8 A man is facing eastwards and turns 45° anticlockwise, again 180° anticlockwise and then turns 225° clockwise. In which direction is he facing now?

Ans

- 1. East
- 2. South-east
- 3. West
- 4. North-east

Question ID : 5096471151  
Status : Answered  
Chosen Option : 1

Q.9 Five friends are taking part in a race. Manu runs faster than Neeraj. Arsh runs faster than Manu. Neeraj runs faster than Sonu but slower than Prashant. Prashant is NOT as fast as Manu. Based on the data given, who is most likely to win the race?

- Ans
- 1. Neeraj
  - 2. Arsh
  - 3. Manu
  - 4. Prashant

Question ID : 5096471160  
Status : Answered  
Chosen Option : 2

Q.1 'Dreamland' is related to 'Utopia' in the same way as 'Earth' is related to:

- Ans
- 1. People
  - 2. Terra Firma
  - 3. Rocks
  - 4. Soil

Question ID : 5096471156  
Status : Answered  
Chosen Option : 1

Q.1 Select the option that will replace the question mark in the below letter series.

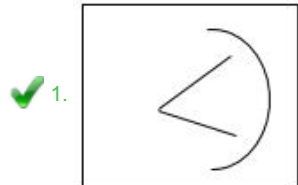
TZJ, PWH, LTF, ?, DNB

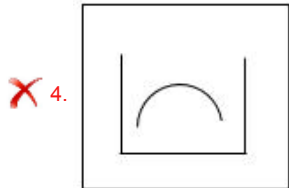
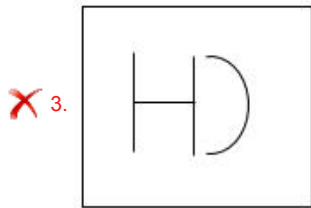
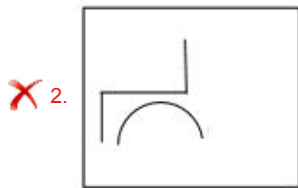
- Ans
- 1. GPD
  - 2. HQD
  - 3. HPD
  - 4. GRE

Question ID : 5096471163  
Status : Answered  
Chosen Option : 2

Q.1 Select the figure that is different from the other three figures.

Ans





Question ID : 5096471152  
Status : Answered  
Chosen Option : 1

Q.1 From the given alternatives, select the word that CANNOT be formed using the letters of the given word.

3

REVOLUTION

- Ans
- ✗ 1. OUTLINE
  - ✗ 2. ROUTINE
  - ✓ 3. RATION
  - ✗ 4. VIOLENT

Question ID : 5096471164  
Status : Answered  
Chosen Option : 3

Q.1 Select the number pair that is different from the other three.

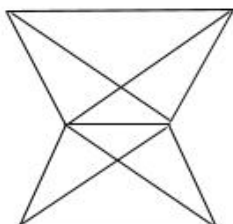
4

- Ans
- ✓ 1. 79-19
  - ✗ 2. 129-31
  - ✗ 3. 97-23
  - ✗ 4. 161-39

Question ID : 5096471162  
Status : Answered  
Chosen Option : 4

Q.1 Find the number of quadrilaterals in the given figure:

5



- Ans
- ✗ 1. 11

- 2. 6
- 3. 8
- 4. 9

Question ID : 5096471155  
Status : Answered  
Chosen Option : 4

Section : General Aptitude

**Q.1** 60% employees of a company are females and 25% of them earn more than ₹ 50,000 per month. If 45% of all the employees earn more than ₹ 50,000 per month, then the percentage of male employees earning ₹ 5000 or less is:

- Ans
- 1. 20
  - 2. 25
  - 3. 30
  - 4. 28

Question ID : 5096471170  
Status : Answered  
Chosen Option : 4

**Q.2** A boat takes 0.5 h more to travel a distance of 45 km upstream than to travel the same distance downstream. If the speed of the boat in still water is 4 times the speed of the stream, then in what time will it cover a distance of 72 km downstream?

- Ans
- 1.  $1\frac{2}{5}$  h
  - 2.  $2\frac{1}{6}$  h
  - 3.  $2\frac{1}{3}$  h
  - 4.  $1\frac{1}{5}$  h

Question ID : 5096471178  
Status : Answered  
Chosen Option : 3

**Q.3** A sum invested at compound interest amounts to ₹ 3,136 in two years and ₹ 3,512.32 in 3 years at a certain rate percentage per annum, when the interest is compounded annually. What will the same sum amount to at the same rate in  $2\frac{2}{3}$  years, interest compounded annually (nearest to one rupee)?

- Ans
- 1. ₹ 3,387
  - 2. ₹ 3,378
  - 3. ₹ 3,487
  - 4. ₹ 3,478

Question ID : 5096471175  
Status : Answered  
Chosen Option : 4

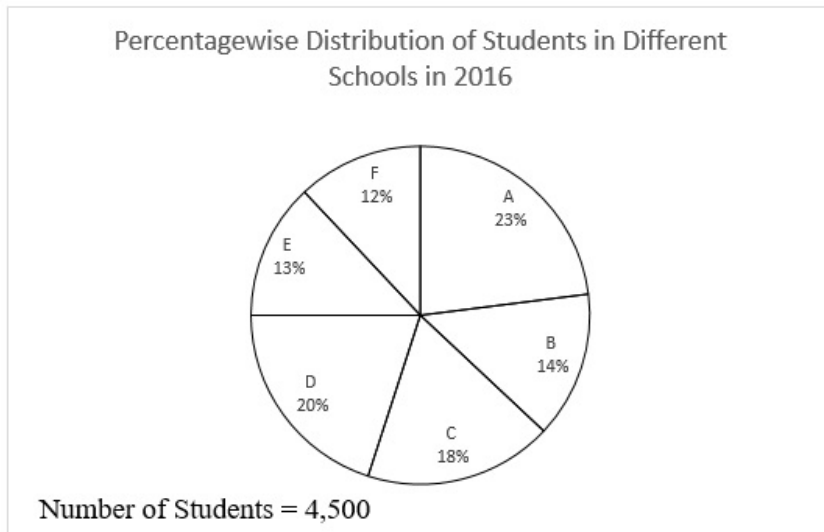
**Q.4** If  $\frac{1}{\sqrt{2}+\sqrt{3}-\sqrt{5}} + \frac{1}{\sqrt{2}-\sqrt{3}-\sqrt{5}} + \frac{(3^4)^4 \times 9^6}{(27)^7 \times 3^8} = a + b\sqrt{2}$ , then the value of  $(3a + 2b)$  will be:

- Ans
- 1. 3
  - 2. 1
  - 3. 4
  - 4. 2



Question ID : 5096471166  
Status : Answered  
Chosen Option : 3

Q.5 Study the following a pie chart and table and answer question.



School	Percentage of students having height less than 150 cm
A	40
B	70
C	60
D	54
E	80
F	65

In which school is the number of students having height 150 cm or more the same as the number of students in school A having height less than 150 cm?

- Ans
- 1. E
  - 2. D
  - 3. F
  - 4. B

Question ID : 5096471179  
Status : Answered  
Chosen Option : 4

Q.6 The value of  $\frac{(174\frac{2}{5})^2 - (137\frac{7}{10})^2}{312\frac{3}{10}}$  of  $\frac{5}{41} \times [6 - (2\frac{3}{4} - \frac{11}{12})]$  is:

- Ans
- 1. 16.75
  - 2. 18.75
  - 3. 20.25
  - 4. 17.25

Question ID : 5096471168  
Status : Answered  
Chosen Option : 2

Q.7 The marked price of an article is ₹ 1,650. A shopkeeper allows a discount of 10% and gets a profit of 10%. If he sells it at ₹ 1,593, the profit percentage will be:

- Ans  1. 18%  
 2. 12.5%  
 3. 15.5%  
 4. 20%

Question ID : 5096471173  
 Status : Answered  
 Chosen Option : 2

Q.8 If  $66\frac{2}{3}\%$  goods are sold at a 30% profit, 25% goods are sold at a 16% profit and the rest at a 48% loss, there is a profit of ₹ 180. The cost price of the goods is:

- Ans  1. ₹ 1,080  
 2. ₹ 840  
 3. ₹ 900  
 4. ₹ 720

Question ID : 5096471172  
 Status : Answered  
 Chosen Option : 2

Q.9 Water flows at 2.5 km/h through a pipe of radius 3.5 cm into a rectangular tank of length 10 m and breadth 8.8 m. The time (in hours) in which the level of water in the tank will rise by 42 cm is:  
 (Take  $\pi = \frac{22}{7}$ )

- Ans  1. 3.48  
 2. 3.24  
 3. 3.96  
 4. 3.84

Question ID : 5096471177  
 Status : Answered  
 Chosen Option : 1

Q.1 At the beginning of a year, the ratio of the number of boys of age up to 16 years to those over 16 years was 8 : 5. At the end of the year, the ratio became 6 : 7 as 40 boys had reached the age of 16 years by then. What is the total number of boys in the school if NO boy left or got admission during the year?

- Ans  1. 273  
 2. 260  
 3. 286  
 4. 247

Question ID : 5096471171  
 Status : Answered  
 Chosen Option : 3

Q.1 Let  $x$  be the greatest number which is such that when 3288, 10139 and 19200 are divided by it, the remainder in each case is the same. What is the sum of the digits of  $x$  ?

- Ans  1. 6  
 2. 7  
 3. 11  
 4. 5

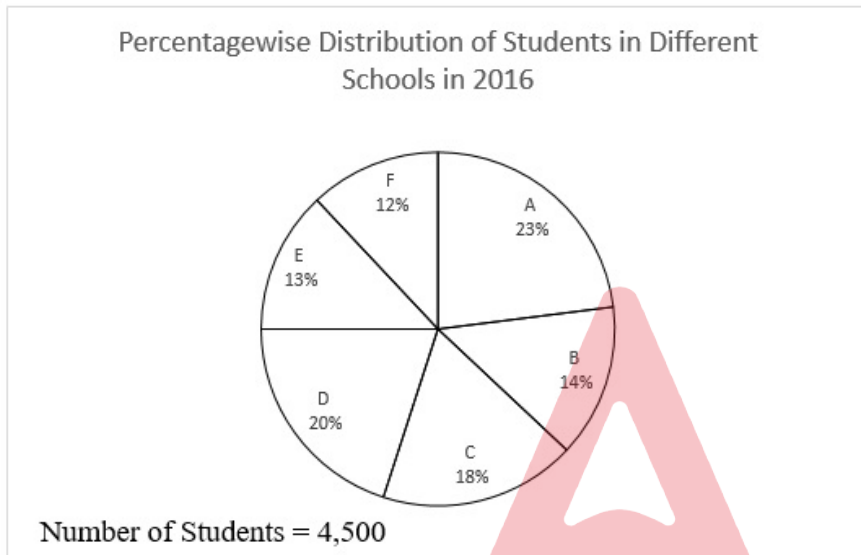
Question ID : 5096471169  
 Status : Answered  
 Chosen Option : 2

Q.1 The two adjacent sides of a parallelogram are 130 cm and 140 cm and one of its diagonals is 150 cm long, and the sum of the parallel sides of a trapezium is 1,050 cm. If its area is equal to the area of the parallelogram, then the perpendicular distance between the parallel sides of the trapezium will be:

- Ans
- 1. 36 cm
  - 2. 30 cm
  - 3. 32 cm
  - 4. 28 cm

Question ID : 5096471176  
 Status : Answered  
 Chosen Option : 3

Q.1 Study the following a pie chart and table and answer question.



School	Percentage of Students having height less than 150 cm
A	40
B	70
C	60
D	54
E	80
F	65

The total number of students in school A and F having height 150 cm or more is what percentage of the total number of students in C, D and E having height less than 150 cm?

- Ans
- 1. 55.5
  - 2. 52.75
  - 3. 56.25
  - 4. 54.5

Question ID : 5096471180  
 Status : Answered  
 Chosen Option : 2

Q.1 The average of twelve numbers is 55.5. The average of the first four is 53.4 and that of next four is 54.6. The 10<sup>th</sup> number is greater than the 9<sup>th</sup> number by 3 but less than the 11<sup>th</sup> and the 12<sup>th</sup> numbers by 2 and 3 respectively. What is the average of the 9<sup>th</sup> and 11<sup>th</sup> numbers?

- Ans
- 1. 57
  - 2. 56

3. 56.6

4. 57.5

Question ID : 5096471174  
Status : Answered  
Chosen Option : 4

Q.1  
5 The value of  $\frac{[(1.3)^2 + (1.3 \times 1.5) + (1.5)^2] \times [(1.3)^2 - 1.95 + (1.5)^2]}{(1.3)^4 + (1.3)^2(2.25) + (1.5)^4}$  is:

Ans  1. 0

2. 0.2

3. 1

4. 1.8

Question ID : 5096471167  
Status : Answered  
Chosen Option : 3

Section : General English

Q.1 Select the wrongly spelt word.

Ans  1. leutenant

2. license

3. liberate

4. literature

Question ID : 5096471196  
Status : Answered  
Chosen Option : 1

Q.2 Select the most appropriate option to fill in the blank.

\_\_\_\_\_ two people were seriously injured in the accident, the first thing I did was to call an ambulance.

Ans  1. Unless

2. In case

3. Since

4. Even if

Question ID : 5096471187  
Status : Answered  
Chosen Option : 2

Q.3 Select the option which is NOT an antonym of another word by way of adding the prefix 'dis-'

Ans  1. disreputable

2. distinguish

3. dissatisfaction

4. disproportionate

Question ID : 5096471194  
Status : Answered  
Chosen Option : 2

Q.4

Select the most appropriate ANTONYM of the given word.

DECEIT

- Ans
- 1. Fraud
  - 2. Honesty
  - 3. Trick
  - 4. Pretence

Question ID : 5096471193  
Status : Answered  
Chosen Option : 1

Q.5 Select the most appropriate option to fill in the blank.

The youngest child of the family was the \_\_\_\_\_.

- Ans
- 1. most successful
  - 2. as successful
  - 3. more successful
  - 4. successful

Question ID : 5096471183  
Status : Answered  
Chosen Option : 1

Q.6 Select the most appropriate option to fill in the blank.

\_\_\_\_\_ being hungry, she couldn't eat the food served in that restaurant.

- Ans
- 1. Whether
  - 2. In case
  - 3. Because
  - 4. In spite of

Question ID : 5096471188  
Status : Answered  
Chosen Option : 4

Q.7 Select the most appropriate direct form of the given sentence.

She told me that when she had heard that she had won the poetry recitation competition the previous day, she had jumped with joy.

- Ans
- 1. She said to me, "When I heard that she had won the poetry recitation competition yesterday, I jumped with joy."
  - 2. She said to me, "When I heard that I had won the poetry recitation competition yesterday, I jumped with joy."
  - 3. She said to me, "When she had heard that she had won the poetry recitation competition the previous day, she had jumped with joy."
  - 4. She said to me, "When I heard that I had won the poetry recitation competition yesterday, I had been jumping with joy."

Question ID : 5096471200  
Status : Answered  
Chosen Option : 4

Q.8

Select the most appropriate synonym of the given word.

DILEMMA

- Ans  1. Price  
 2. Condition  
 3. Solution  
 4. Problem

Question ID : 5096471191  
Status : Answered  
Chosen Option : 2

Q.9 Select the correctly spelt word.

- Ans  1. equelilibrium  
 2. equilbriam  
 3. equilibrium  
 4. equillibrium

Question ID : 5096471195  
Status : Answered  
Chosen Option : 4

Q.1 Select the most appropriate option to fill in the blank.

0

In the last quarter, the company made a good profit but in this quarter it \_\_\_\_\_ well.

- Ans  1. hadn't done  
 2. hasn't done  
 3. doesn't do  
 4. wasn't doing

Question ID : 5096471182  
Status : Answered  
Chosen Option : 1

Q.1 Select the most appropriate synonym of the given word.

1

ABSCOND

- Ans  1. Flee  
 2. Come  
 3. Evict  
 4. Remain

Question ID : 5096471192  
Status : Answered  
Chosen Option : 3

Q.1 Select the most appropriate option to fill in the blank.

2

After the interview, when I looked back, I was annoyed with \_\_\_\_\_ for not answering a question properly.

- Ans  1. yourself  
 2. himself

3. myself

4. themselves

Question ID : 5096471186  
Status : Answered  
Chosen Option : 3

Q.1 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Choose the  
3 INCORRECT word or phrase from the given options.

Pharmaceutical exports from the country is expected to cross \$19 billion in worth during the current financial year.

Ans  1. during

2. in worth

3. from

4. is expected

Question ID : 5096471197  
Status : Answered  
Chosen Option : 2

Q.1 Select the most appropriate option to fill in the blank.  
4

Last evening while I \_\_\_\_\_ a walk in the park, I met Mrs Murty.

Ans  1. have taken

2. took

3. take

4. was taking

Question ID : 5096471181  
Status : Answered  
Chosen Option : 4

Q.1 Select the most appropriate INDIRECT form of the given sentence.  
5

I said to him, "In winter, I am going to visit Cambodia with my family."

Ans  1.

I told them that in winter I was going to visit Cambodia with my family.

2.

I told them that in winter I am going to visit Cambodia with my family.

3.

I told them that in winter he was going to visit Cambodia with his family.

4.

I told them that in winter I would be going to visit Cambodia with my family.

Question ID : 5096471199  
Status : Answered  
Chosen Option : 1

Q.1 Select the most appropriate option to fill in the blank.  
6

In the rainy season, there are many \_\_\_\_\_ caterpillars in the garden.

Ans  1. small velvety red and black

2. small red and black velvety
3. red and black small velvety
4. velvety small red and black

Question ID : 5096471184  
Status : Answered  
Chosen Option : 2

Q.1 Select the correct passive form of the given sentence.

7

The fall in the rupee will hit the importers as the cost of getting goods or equipment into India will increase.

Ans  1.

The importers would be hit by the fall in the rupee as the cost of getting goods or equipment into India will be increased.

2.

The importers are being hit by the fall in the rupee as the cost of getting goods or equipment into India is increasing.

3.

The goods or equipment will be hit by the fall in the rupee as the cost of getting importers into India will increase.

4.

The importers will be hit by the fall in the rupee as the cost of getting goods or equipment into India will increase.

Question ID : 5096471189  
Status : Answered  
Chosen Option : 1

Q.1 Select the correct active form of the given sentence.

8

A student leader was attacked by an unidentified youth yesterday outside the Constitution Club.

Ans  1.

A student leader attacked an unidentified youth yesterday outside the Constitution Club.

2.

An unidentified youth had been attacking a student leader yesterday outside the Constitution Club.

3.

An unidentified youth attacked a student leader yesterday outside the Constitution Club.

4.

An unidentified youth was attacking a student leader yesterday outside the Constitution Club.

Question ID : 5096471190  
Status : Answered  
Chosen Option : 4

Q.1 Select the most appropriate option to fill in the blank.

9

It is my granddaughter's birthday today. I am going to get \_\_\_\_\_ a puppy.

Ans  1. him

2. her

3. you

4. it

Question ID : 5096471185  
Status : Answered  
Chosen Option : 2

Q.2 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Choose the INCORRECT word or phrase from the given options.

0

There can hardly be nothing worse than reaching a cinema hall and discovering that the tickets have been left at home.

Ans  1. have been left



- 2. nothing
- 3. than
- 4. discovering

Question ID : 5096471198  
Status : Answered  
Chosen Option : 1

Section : Discipline

Q.1 A partial differential equation formed from the relation  $z = (x^2 + a)(y^2 + b)$  will be:

- Ans
- 1.  $\frac{\partial z}{\partial x} \frac{\partial z}{\partial y} = 4xyz$
  - 2.  $\frac{\partial z}{\partial x} \frac{\partial z}{\partial y} = 4xy$
  - 3.  $\frac{\partial z}{\partial x} + \frac{\partial z}{\partial y} = 4xyz$
  - 4.  $\frac{\partial z}{\partial x} - \frac{\partial z}{\partial y} = 4xy$

Question ID : 5096471245  
Status : Answered  
Chosen Option : 2

Q.2 The longest wavelength that can be analysed by a NaCl crystal of interplanar spacing 0.282 nm between its principal planes, in the first order, is:

- Ans
- 1. 0.654 nm
  - 2. 0.564 nm
  - 3. 0.969 nm
  - 4. 0.282 nm

Question ID : 5096471216  
Status : Answered  
Chosen Option : 2

Q.3 An electron and a proton have the same kinetic energy. Then, the ratio of de Broglie wavelengths of proton and electron will be nearly:

- Ans
- 1. 1 : 43
  - 2. 1 : 1838
  - 3. 1838 : 1
  - 4. 43 : 1

Question ID : 5096471228  
Status : Answered  
Chosen Option : 3

Q.4 The energy equivalent of mass associated with the rest mass of an electron, is nearly:

- Ans
- 1. 1.02 MeV
  - 2. 0.51 MeV
  - 3. 2.04 MeV
  - 4. 931.5 MeV

Question ID : 5096471212

Status : Answered  
Chosen Option : 4

Q.5 The value of  $\int \frac{2x}{(x^2+1)(x^2+3)} dx$  will be \_\_\_\_\_ where  $c$  is an arbitrary constant.

- Ans
- ✓ 1.  $\frac{1}{2} \log \frac{x^2 + 1}{x^2 + 3} + c$
  - ✗ 2.  $\frac{1}{2} \log \frac{x^2 - 1}{x^2 + 1} + c$
  - ✗ 3.  $2 \log \frac{x + 1}{x - 1} + c$
  - ✗ 4.  $2 \log \frac{2x + 1}{2x - 1} + c$

Question ID : 5096471251  
Status : Answered  
Chosen Option : 1

Q.6 A linear transformation  $T : \mathbb{R}^2 \rightarrow \mathbb{R}^2$  first reflects points through the vertical axis (y-axis) and then reflects points through the line  $x = y$ . The standard matrix of  $T$  is:

- Ans
- ✗ 1.  $\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$
  - ✗ 2.  $\begin{bmatrix} -1 & 0 \\ 0 & -1 \end{bmatrix}$
  - ✓ 3.  $\begin{bmatrix} 0 & 1 \\ -1 & 0 \end{bmatrix}$
  - ✗ 4.  $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

Question ID : 5096471256  
Status : Answered  
Chosen Option : 4

Q.7 If the interval of differencing is 1, then the value of  $\Delta \sin 4x$  will be:

- Ans
- ✓ 1.  $2(\sin 2)(\cos 2(2x + 1))$
  - ✗ 2.  $2(\sin 2)(\sin 2(x + 2))$
  - ✗ 3.  $2(\cos 4)(\sin 2(x + 2))$
  - ✗ 4.  $2(\cos 2)(\cos 2(2x - 1))$

Question ID : 5096471258  
Status : Answered  
Chosen Option : 1

Q.8 Consider two subsets of  $\mathbb{R}^3$  given as  $S_1 = \{[1, -1, 2], [3, 2, -1]\}$  and  $S_2 = \{[2, 7, -3], [-6, -21, 9]\}$ . Then:

- Ans
- ✗ 1. neither  $S_1$  and  $S_2$  can be enlarged to a basis for  $\mathbb{R}^3$ .
  - ✓ 2.  $S_1$  can be enlarged but  $S_2$  cannot be enlarged to a basis for  $\mathbb{R}^3$ .
  - ✗ 3.

$S_1$  cannot be enlarged but  $S_2$  can be enlarged to a basis for  $\mathbb{R}^3$ .

4. both  $S_1$  and  $S_2$  can be enlarged to a basis for  $\mathbb{R}^3$ .

Question ID : 5096471257  
Status : Answered  
Chosen Option : 3

Q.9 Which of the following materials is used for the generation of ultrasonic waves by using piezoelectric effect?

Ans  1. Copper

2. Quartz

3. Aluminium

4. Iron

Question ID : 5096471218  
Status : Answered  
Chosen Option : 2

Q.1  
0 For the data,

$x:$  0 1 2 3 4

$f(x):$  5 2 1 3 7

the value of  $\int_0^4 2f(x)dx$  will be:

Ans  1. 24

2. 21

3. 42

4. 12

Question ID : 5096471259  
Status : Answered  
Chosen Option : 1

Q.1  
1 The value of  $\lim_{x \rightarrow 0} \frac{e^x - 1}{x^2}$  is:

Ans  1.  $-\frac{1}{6}$

2.  $-\infty$

3.  $\infty$

4.  $\frac{1}{6}$

Question ID : 5096471232  
Status : Answered  
Chosen Option : 4

Q.1  
2 The length of the arc of the curve  $r = f(\theta)$  between the points, where  $\theta = \alpha$  and  $\theta = \beta$ , is:

Ans  1.  $\int_{\alpha}^{\beta} \sqrt{r^2 + \left(\frac{dr}{d\theta}\right)^2} d\theta$

2.  $\int_{\alpha}^{\beta} \sqrt{1 + (r \sin\theta)^2} d\theta$

3.  $\int_{\alpha}^{\beta} \sqrt{1 + \left(\frac{dr}{d\theta}\right)^2} d\theta$

4.  $\int_{\alpha}^{\beta} \sqrt{r + \left(r \frac{dr}{d\theta}\right)^2} d\theta$

Question ID : 5096471249  
Status : Answered  
Chosen Option : 1

Q.1  
3 For what value of  $\beta$ , do the simultaneous equations  
 $7x + 2y = -3$   
 $14x + 6y = \beta$   
have a unique value?

Ans  1. for all real values of  $\beta$

2.  $\beta = 0$

3.  $\beta \neq -6$

4.  $\beta = -6$

Question ID : 5096471253  
Status : Answered  
Chosen Option : 4

Q.1  
4 The general solution of  $\frac{a dx}{(b-c)yz} = \frac{b dy}{(c-a)zx} = \frac{c dz}{(a-b)xy}$  will be \_\_\_\_\_, where  $c_1$  and  $c_2$  are arbitrary constants.

Ans  1.  $ax^2 + by^2 - cz^2 = c_1, a^2x^2 - b^2y^2 + c^2z^2 = c_2$

2.  $ax + by + cz = c_1, ax^2 - by^2 - cz^2 = c_2$

3.  $ax^2 + by^2 + cz^2 = c_1, a^2x^2 + b^2y^2 + c^2z^2 = c_2$

4.  $ax - by + cz = c_1, ax^2 + by^2 - cz^2 = c_2$

Question ID : 5096471243  
Status : Answered  
Chosen Option : 3

Q.1  
5 Which of the following statements is true?

Ans  1.

For an infinite series,  
Uniform convergence  $\Rightarrow$  Absolute convergence, but the converse need not be true.

2.

There is no relation between absolute and uniform convergence of an infinite series.

3.

An infinite series will be either absolute convergent or uniformly convergent but not both.

4.

For an infinite series,  
Absolute convergence  $\Rightarrow$  Uniform convergence, but the converse need not be true.

Question ID : 5096471241  
Status : Answered  
Chosen Option : 1

Q.1  
6 In a dielectric material, the polarisation vector P, the displacement vector D and the electric field vector E are related as:

- Ans
- 1.  $\epsilon_0 E = D + P$
  - 2.  $P = E - \epsilon_0 D$
  - 3.  $P = \epsilon_0 E + D$
  - 4.  $P = D - \epsilon_0 E$

Question ID : 5096471224  
Status : Answered  
Chosen Option : 3

Q.1 On gradually decreasing the distance between the slits in Fresnel's biprism experimental arrangement, the fringe width in the interference pattern obtained using monochromatic light source:

- Ans
- 1. first increases and then decreases
  - 2. decreases
  - 3. increases
  - 4. remains the same

Question ID : 5096471221  
Status : Answered  
Chosen Option : 3

Q.1 When a beam of ordinary light is incident on a rectangular glass plate at a polarising angle, the resulting reflected and refracted beams are:

- Ans
- 1. perpendicular to each other
  - 2. inclined at angle  $45^\circ$
  - 3. inclined at an angle  $60^\circ$
  - 4. parallel to each other

Question ID : 5096471222  
Status : Answered  
Chosen Option : 1

Q.1 The concept of displacement current was proposed by:

- Ans
- 1. Faraday
  - 2. Biot-Savart
  - 3. Ampere
  - 4. Maxwell

Question ID : 5096471203  
Status : Answered  
Chosen Option : 3

Q.2 Hard magnetic materials like tungsten-steel alloy or chromium-steel alloy are used in the manufacture of:

- Ans
- 1. dynamo core
  - 2. permanent magnets
  - 3. transformer core
  - 4. electromagnets

Question ID : 5096471229  
Status : Answered  
Chosen Option : 2

Q.2  
1 Which of the following particles, moving with the same velocity, has the shortest wavelength?

- Ans
- 1. A neutron
  - 2. An alpha-particle
  - 3. A proton
  - 4. An electron

Question ID : 5096471201  
Status : Answered  
Chosen Option : 2

Q.2  
2 The de Broglie wavelength  $\lambda$  associated with an electron of mass  $m$  and accelerated by an electric potential  $V$  is:

- Ans
- 1.  $h / (\sqrt{2meV})$
  - 2.  $h / \sqrt{meV}$
  - 3.  $m / (\sqrt{2ehV})$
  - 4.  $h / (2meV)$

Question ID : 5096471206  
Status : Answered  
Chosen Option : 1

Q.2  
3 In a biprism experimental arrangement, an obtuse angle and two acute angles of the Fresnel's biprism respectively are nearly:

- Ans
- 1.  $179^\circ; 1^\circ$  each
  - 2.  $180^\circ; 30'$  each
  - 3.  $179^\circ; 30'$  each
  - 4.  $180^\circ; 1^\circ$  each

Question ID : 5096471217  
Status : Answered  
Chosen Option : 1

Q.2  
4 The value of  $\int_0^{\frac{\pi}{2}} \sin^8 x \cos^4 x dx$  will be:

- Ans
- 1.  $\frac{6\pi}{343}$
  - 2.  $\frac{5\pi}{1024}$
  - 3.  $\frac{7\pi}{1024}$
  - 4.  $\frac{7\pi}{2048}$

Question ID : 5096471248  
Status : Answered  
Chosen Option : 2

Q.2  
5 In an ultrasonic pulse echo technique, the ultrasonic pulse travels with velocity 5.941 km/s in a steel bar of thickness 22 mm. Then, the echo time of the ultrasonic pulse is nearly:

- Ans
- 1.  $5.4 \mu s$

- 2.  $6.4 \mu\text{s}$
- 3.  $7.4 \mu\text{s}$
- 4.  $8.4 \mu\text{s}$

Question ID : 5096471219  
Status : Answered  
Chosen Option : 4

**Q.2** In a Fresnel's biprism arrangement, monochromatic light of wavelength  $550 \text{ nm}$  is used to obtain interference fringe pattern on the screen. When a thin, transparent glass sheet of refractive index  $1.52$  is introduced in the path of one of the interfering beams, ten interference fringes are found to be shifted. Then, the thickness of the glass sheet is nearly:

- 6**
- Ans  1.  $2.4 \mu\text{m}$
2.  $24.6 \mu\text{m}$
3.  $10.6 \mu\text{m}$
4.  $6.4 \mu\text{m}$

Question ID : 5096471214  
Status : Answered  
Chosen Option : 1

**Q.2** Suppose that  $X = \langle x_n \rangle$ ,  $Y = \langle y_n \rangle$ ,  $Z = \langle z_n \rangle$  are sequences of real numbers such that  $x_n \leq y_n \leq z_n$  for all  $n \in \mathbb{N}$ , and  $7$  that  $\lim\langle x_n \rangle = \lim\langle z_n \rangle$ . Then:

- Ans  1.  $Y$  is convergent and  $\lim\langle x_n \rangle < \lim\langle y_n \rangle < \lim\langle z_n \rangle$
2.  $Y$  is divergent
3.  $Y$  is convergent and  $\lim\langle z_n \rangle < \lim\langle y_n \rangle < \lim\langle x_n \rangle$
4.  $Y$  is convergent and  $\lim\langle x_n \rangle = \lim\langle y_n \rangle = \lim\langle z_n \rangle$

Question ID : 5096471238  
Status : Answered  
Chosen Option : 1

**Q.2** Consider two series  $\sum_{n=1}^{\infty} (-1)^{n-1} a_n$  and  $\sum_{n=2}^{\infty} (-1)^{n-1} b_n$ , where  $a_n = \frac{1}{\sqrt{n}}$ ,  $b_n = \frac{x^n}{n(n-1)}$ ,  $0 < x < 1$ .  
8 Then:

- Ans  1.  $\sum_{n=1}^{\infty} (-1)^{n-1} a_n$  is convergent but  $\sum_{n=2}^{\infty} (-1)^{n-1} b_n$  is divergent.
2. both series are convergent.
3.  $\sum_{n=1}^{\infty} (-1)^{n-1} a_n$  is divergent but  $\sum_{n=2}^{\infty} (-1)^{n-1} b_n$  is convergent.
4. both series are divergent.

Question ID : 5096471240  
Status : Answered  
Chosen Option : 1

**Q.2** The solution of difference equation  $u_{n+1} - 2u_n \cos \theta + u_{n-1} = 0$  will be \_\_\_\_\_, where  $c_1$  and  $c_2$  are constants.  
9

- Ans  1.  $u_n = (c_1 + c_2 n) \sin n \theta + \cos n \theta$
2.  $u_n = (c_1 + c_2 n) \cos n \theta + \sin n \theta$
3.  $u_n = (-1)^n [c_1 \cos(n-1)\theta + c_2 \sin(n-1)\theta]$
4.  $u_n = c_1 \cos n \theta + c_2 \sin n \theta$

Question ID : 5096471235  
Status : Answered  
Chosen Option : 2

Q.3 On keeping a paramagnetic material in a magnetic field, the magnetic flux density inside the material is likely to:

0

- Ans  1. increase  
 2. decrease  
 3. reduce to zero  
 4. remain the same

Question ID : 5096471211  
Status : Answered  
Chosen Option : 1

Q.3 Which of the following materials is used in memory cores of computers?

1

- Ans  1. Ferromagnetic  
 2. Diamagnetic  
 3. Paramagnetic  
 4. Ferrite

Question ID : 5096471227  
Status : Answered  
Chosen Option : 4

Q.3 A monochromatic light beam is incident on a set of two polaroids, a polariser A and an analyser B. Then, the analyser B is adjusted and set to maximum transmitted intensity. In order to block the monochromatic light completely with the help of the polaroids, the angle between their transmission axes should be:

2

- Ans  1.  $135^\circ$   
 2.  $45^\circ$   
 3.  $90^\circ$   
 4.  $60^\circ$

Question ID : 5096471213  
Status : Answered  
Chosen Option : 3

Q.3 General solution of partial differential equation

3

$y^2 \frac{\partial z}{\partial x} - xy \frac{\partial z}{\partial y} = x(z - 2y)$  will be \_\_\_\_\_, where  $\varphi$  is an arbitrary function.

- Ans  1.  $\varphi(x^3 - x^2y, x + y + z) = 0$   
 2.  $\varphi(x^2 + y^2, y^2 - yz) = 0$   
 3.  $\varphi(x^2 + xy, y + z) = 0$   
 4.  $\varphi(x^2 - y^3, y - z) = 0$

Question ID : 5096471246  
Status : Answered  
Chosen Option : 4

Q.3 X-rays can be deflected by:

4



- Ans
- 1. electric field
  - 2. none of the fields
  - 3. magnetic field
  - 4. electromagnetic field

Question ID : 5096471204  
Status : Answered  
Chosen Option : 4

Q.3  
5 The equation

$$xy \frac{\partial^2 z}{\partial x^2} - (x^2 - y^2) \frac{\partial^2 z}{\partial x \partial y} - xy \frac{\partial^2 z}{\partial y^2} + y \frac{\partial z}{\partial x} - x \frac{\partial z}{\partial y} = 2(x^2 - y^2)$$
 is classified as:

- Ans
- 1. elliptic
  - 2. hyperbolic for all  $x, y (\neq 0)$
  - 3. parabolic
  - 4. hyperbolic for  $x = 0, y = 0$ ; elsewhere parabolic

Question ID : 5096471247  
Status : Answered  
Chosen Option : 2

Q.3  
6 If the sum of eigenvalues of matrix  $A = \begin{bmatrix} 16 & 9 & 7 \\ -9 & k^2 & 3 \\ 5 & 16 & 9 \end{bmatrix}$  is 29, then the possible values of  $k$  will be:

- Ans
- 1. 3, -2
  - 2. 2, -2
  - 3. 3, -3
  - 4. 2, 3

Question ID : 5096471254  
Status : Answered  
Chosen Option : 2

Q.3  
7 Which of the following statements is FALSE?

- Ans
- 1. The union of an arbitrary collection of non-empty open sets is an open set.
  - 2. The union of an arbitrary non-empty collection of closed sets is closed.
  - 3. The intersection of a finite collection of open sets is an open set.
  - 4. The intersection of an arbitrary non-empty collection of closed sets is a closed set.

Question ID : 5096471236  
Status : Answered  
Chosen Option : 2

Q.3  
8

Consider the following two sequences,

$$X = \{-1, 1, -1, 1, \dots\} \text{ and}$$

$$Y = \left\{1, \frac{1}{2}, 3, \frac{1}{4}, \dots\right\}.$$

Then:

- Ans  1. both X and Y are divergent.  
 2. both X and Y are convergent.  
 3. X is convergent but Y is divergent.  
 4. X is divergent but Y is convergent.

Question ID : 5096471237  
 Status : Answered  
 Chosen Option : 1

Q.3  
9 A magnetic material has a magnetization of 2350 A/m and produces a flux density of 3.142 mWb/m<sup>2</sup>. Then, the relative permeability of the material is:

- Ans  1. 11.67  
 2. 17.47  
 3. 12.47  
 4. 16.67

Question ID : 5096471230  
 Status : Answered  
 Chosen Option : 2

Q.4  
0 Consider two functions  $y_1(x) = x$  and  $y_2(x) = |x|$ . Then:

- Ans  1. both functions are linearly dependent on the real line.  
 2.  
 $y_1(x)$  is linearly independent but  $y_2(x)$  is linearly dependent on the real line.  
 3.  
 $y_1(x)$  is linearly dependent but  $y_2(x)$  is linearly independent on the real line.  
 4. both functions are linearly independent on the real line.

Question ID : 5096471242  
 Status : Answered  
 Chosen Option : 3

Q.4  
1 Circular patches are often observed on the ground when sunlight filters through the space between the leaves of a tree. This arises due to the optical phenomenon of:

- Ans  1. scattering  
 2. diffraction  
 3. interference  
 4. polarisation

Question ID : 5096471220  
 Status : Answered  
 Chosen Option : 1

Q.4  
2 Which of the following is true?

- Ans  1.  $\int_0^{2a} f(x)dx = \int_0^a f(x)dx$ , if  $f(2a-x) = -f(x)$

2.  $\int_0^{2a} f(x)dx = 2 \int_0^a f(x)dx$ , if  $f(2a-x) = -f(x)$

3.  $\int_0^{2a} f(x)dx = \frac{1}{2} \int_0^a f(x)dx$ , if  $f(2a-x) = -f(x)$

4.  $\int_0^{2a} f(x)dx = 0$ , if  $f(2a-x) = -f(x)$

Question ID : 5096471250  
Status : Answered  
Chosen Option : 1

Q.4  
3 According to quantum mechanics, a moving material particle is associated with:

Ans  1. a wave packet

2. light wave

3. a single wave

4. acoustic wave

Question ID : 5096471215  
Status : Answered  
Chosen Option : 3

Q.4  
4 In a dispersive medium, the group velocity is:

Ans  1. less than the phase velocity only

2. equal to the phase velocity only

3.

more than the phase velocity, depending on the nature of the dispersive medium

4. more than the phase velocity

Question ID : 5096471205  
Status : Answered  
Chosen Option : 4

Q.4  
5 The solution of differential equation  $x^2 \frac{d^2y}{dx^2} + 4x \frac{dy}{dx} + 2y = 0$  will be \_\_\_\_\_, where  $c_1$  and  $c_2$  are constants.

Ans  1.  $y = c_1 + c_2x^2$

2.  $y = \frac{c_1}{x} + \frac{c_2}{x^2}$

3.  $y = c_1 \cos x + c_2 \sin x$

4.  $y = c_1x + c_2x^2$

Question ID : 5096471244  
Status : Answered  
Chosen Option : 2

Q.4  
6 The interval of convergence of the series

$$\sum \left(\frac{3^{2n}}{n}\right)(x-1)^n \text{ is:}$$

Ans  1.  $\left(\frac{2}{3}, \frac{2}{5}\right)$

2.  $\left[\frac{8}{9}, \frac{10}{9}\right)$

3.  $\left(\frac{2}{3}, \frac{5}{3}\right]$

4.  $\left(\frac{7}{9}, \frac{16}{9}\right)$

Question ID : 5096471239  
Status : Answered  
Chosen Option : 4

Q.4  
7 Schrodinger wave equation can be written as:

Ans  1.  $H \psi + E \psi = 0$

2.  $E \psi = 0$

3.  $H \psi - E \psi = 0$

4.  $H \psi = 0$

Question ID : 5096471202  
Status : Answered  
Chosen Option : 4

Q.4  
8 The resolving power of a plane transmission diffraction grating will increase on increasing:

Ans  1. the grating element only

2. the order of the spectrum only

3. the total number of rulings on the grating only

4.

both order of the spectrum and total number of rulings on the grating

Question ID : 5096471208  
Status : Answered  
Chosen Option : 4

Q.4  
9 A general solution of the differential equation  $(x + y) \frac{dy}{dx} = x - y$  will be \_\_\_\_\_ where  $c$  is a constant.

Ans  1.  $x^2 + xy + y^2 = c$

2.  $x^2 - 2xy - y^2 = c$

3.  $2x^2 + xy + y^2 = c$

4.  $x^2 + 2xy - y^2 = c$

Question ID : 5096471234  
Status : Answered  
Chosen Option : 4

Q.5  
0 Which of the following waves CANNOT be polarised?

Ans  1. Acoustic waves

2. Light waves

3. X-rays

4. Radio waves

Question ID : 5096471210  
Status : Answered

Chosen Option : 1

Q.5  
1 Which of the following statements is true?

Ans  1.

$$\int \sqrt{x^2 - a^2} dx = \frac{x\sqrt{x^2 - a^2}}{2} + \frac{a^2}{2} \log|x - \sqrt{x^2 - a^2}| + c, \text{ where } c \text{ is an arbitrary constant.}$$

2.

$$\int \sqrt{a^2 - x^2} dx = \frac{\sqrt{a^2 - x^2}}{2} + \frac{a^2}{2} \sin^{-1} x + c, \text{ where } c \text{ is an arbitrary constant.}$$

3.

$$\int \sqrt{a^2 + x^2} dx = \frac{x\sqrt{a^2 + x^2}}{2} + \frac{a^2}{2} \sinh^{-1} x + c, \text{ where } c \text{ is an arbitrary constant.}$$

4.

$$\int \sqrt{x^2 - a^2} dx = \frac{\sqrt{x^2 - a^2}}{2} + \frac{a^2}{2} \sinh^{-1} x + c, \text{ where } c \text{ is an arbitrary constant.}$$

Question ID : 5096471252

Status : Answered

Chosen Option : 1

Q.5  
2 If  $\sin u = \frac{x^2 + y^2}{\sqrt{x} + \sqrt{y}}$ , then  $x u_x + y u_y$  will be equal to:

Ans  1.  $\frac{5}{2} \tan u$

2.  $\frac{3}{2} \tan u$

3.  $\frac{1}{2} \cot u$

4.  $\frac{3}{2} \cot u$

Question ID : 5096471233

Status : Answered

Chosen Option : 2

Q.5  
3 Newton's rings, observed in an optical interference experimental set-up, are loci of points of:

Ans  1. unequal thickness and equal inclination

2. equal thickness only

3. both equal inclination and equal thickness

4. equal inclination only

Question ID : 5096471207

Status : Answered

Chosen Option : 3

Q.5  
4 The approximate solution of the system of simultaneous equations

$$5x - 2y + z = -1$$

$$3x + 4y - 2z = 2$$

$$4x - y + 3z = 4$$

by applying Gauss-Jacobi method one time (using initial approximation as  $x = 0, y = 0, z = 0$ ) will be:

Ans  1.  $x = 1.25, y = 2.275, z = -3.72$

2.  $x = -1.5, y = -3.25, z = 1.275$

3.  $x = 1.5, y = -2.375, z = 2.234$

✓ 4.  $x = -0.2, y = 0.5, z = 1.33$

Question ID : 5096471260  
Status : Answered  
Chosen Option : 3

Q.5 For which of the following colours of monochromatic light, the fringe width in the interference fringe pattern observed in a Fresnel's biprism experiment will be maximum?

- Ans
- ✗ 1. Green
  - ✓ 2. Red
  - ✗ 3. Yellow
  - ✗ 4. Blue

Question ID : 5096471209  
Status : Answered  
Chosen Option : 2

Q.5 An observer moves with a speed of  $0.86c$  towards a stationary source of light in air. The speed of light would appear to the observer to be:

- Ans
- ✓ 1.  $c$
  - ✗ 2.  $1.2c$
  - ✗ 3.  $0.5c$
  - ✗ 4.  $0.8c$

Question ID : 5096471225  
Status : Answered  
Chosen Option : 3

Q.5 A tube of length 20 cm containing sugar solution rotates the plane of polarization by  $11^\circ$ . If the specific rotation of sugar is  $66^\circ$ , the strength of the sugar solution is:

- Ans
- ✗ 1.  $0.0667 \text{ g/cc}$
  - ✓ 2.  $0.0833 \text{ g/cc}$
  - ✗ 3.  $0.0400 \text{ g/cc}$
  - ✗ 4.  $0.0886 \text{ g/cc}$

Question ID : 5096471226  
Status : Answered  
Chosen Option : 1

Q.5 The longitudinal waves whose frequencies lie below 20 Hz are:

- Ans
- ✓ 1. infrasonic waves
  - ✗ 2. ultrasonic waves
  - ✗ 3. hypersonic waves
  - ✗ 4. audible waves

Question ID : 5096471223  
Status : Answered  
Chosen Option : 4

Q.5 For a complex variable  $Z$ , if  $f(Z) = \begin{cases} \frac{Z}{|Z|}, & \text{for } Z \neq 0 \\ 0, & \text{for } Z = 0 \end{cases}$  then:

1.  $\lim_{Z \rightarrow 0} f(Z) = 1$

2.  $f(Z)$  is discontinuous at origin.

3.  $f(Z)$  is continuous at origin.

4.  $\lim_{Z \rightarrow 0} f(Z) = i$

Question ID : 5096471231

Status : Answered

Chosen Option : 2

Q.6 Consider two subsets of  $\mathbb{R}^3$  given as  $S_1 = \{[7,7,7]\}$  and  $S_2 = \{[0,0,0]\}$ . Which of the following statements is true?

Ans  1. Both  $S_1$  and  $S_2$  are linearly independent.

2.  $S_1$  is linearly independent but  $S_2$  is linearly dependent.

3.  $S_1$  is linearly dependent but  $S_2$  is linearly independent.

4. Both  $S_1$  and  $S_2$  are linearly dependent.

Question ID : 5096471255

Status : Answered

Chosen Option : 1