

Q.1

The value of a company is measured as the total value of its shares owned by different investors. Rakesh owns $\frac{2}{15}$ of the shares of a company. He sells $\frac{1}{3}$ of his shares for Rs. 75,000/- . What is the total value of the company at that time?

1. Rs. 15,75,800
2. Rs. 16,87,500
3. Rs. 17,75,800
4. Rs. 18,27,500

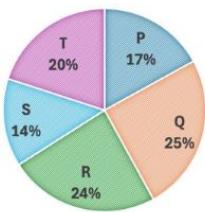
Options

1. 1
2. 2
3. 3
4. 4

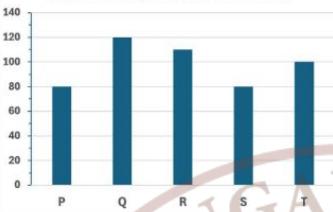
Q.2

The market share (%) and annual production of scooters from five automobile companies P, Q, R, S, and T are shown in graphs.

MARKET SHARE (%)



PRODUCTION (Thousands of Scooters)



Question Type : MCQ
 Question ID : 56295478
 Option 1 ID : 562954309
 Option 2 ID : 562954310
 Option 3 ID : 562954311
 Option 4 ID : 562954312
 Status : Answered
 Chosen Option : 2

If the profit of a company is directly proportional to the ratio of market share to production, then which of the following statements is/are CORRECT?

Statement X: Companies T and P have same profit
 Statement Y: Company R has the maximum profit
 Statement Z: Company S has the minimum profit

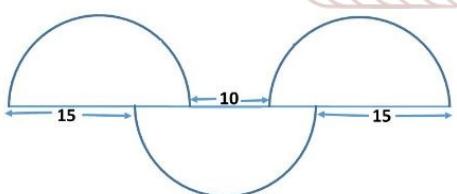
1. X and Y
2. X and Z
3. Y and Z
4. Only Z

Options

1. 1
2. 2
3. 3
4. 4

Q.3

Three identical semi-circles are arranged as shown. What is the diameter of the semi-circles?



Question Type : MCQ
 Question ID : 56295488
 Option 1 ID : 562954349
 Option 2 ID : 562954350
 Option 3 ID : 562954351
 Option 4 ID : 562954352
 Status : Answered
 Chosen Option : 2

1. 5π
2. 20
3. $15\pi/2$
4. 25

Options

1. 1
2. 2
3. 3
4. 4

Q.4

What will be the digit at the unit's place of $1^3 + 2^3 + 3^3 + 4^3 + 5^3 + 6^3 + 7^3 + 8^3 + 9^3$?

1. 0
2. 5
3. 7
4. 9

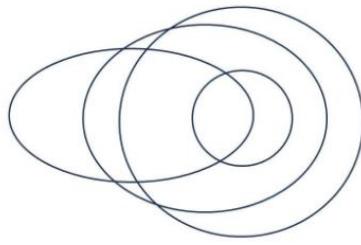
Question Type : MCQ
 Question ID : 56295486
 Option 1 ID : 562954341
 Option 2 ID : 562954342
 Option 3 ID : 562954343
 Option 4 ID : 562954344
 Status : Answered
 Chosen Option : 2

Options

1. 1
2. 2
3. 3
4. 4

Q.5

The following diagram represents the relationship between four categories.



Question Type : MCQ
 Question ID : 56295490
 Option 1 ID : 562954357
 Option 2 ID : 562954358
 Option 3 ID : 562954359
 Option 4 ID : 562954360
 Status : Not Attempted and Marked For Review
 Chosen Option : --

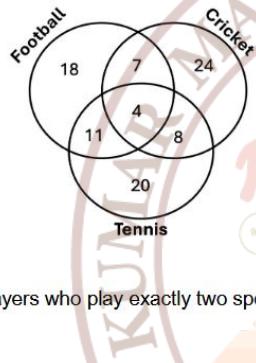
The categories could be

1. Rivers, water bodies, oceans, sources of evaporation
2. Parliamentarians, celebrities, elected persons, professional politicians
3. Monkeys, four-legged animals, pet animals, land animals
4. Furniture, chairs, seats, wooden objects

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.6

The given Venn diagram shows numbers of players playing one or more than one sport.



Question Type : MCQ
 Question ID : 56295477
 Option 1 ID : 562954305
 Option 2 ID : 562954306
 Option 3 ID : 562954307
 Option 4 ID : 562954308
 Status : Answered
 Chosen Option : 3

The percentage of players who play exactly two sports is closest to ____%.

1. 5
2. 14
3. 28
4. 32

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.7

Rahul and his father started jogging on a circular track of radius 'r' ($r > 2$). Rahul completed one round and stopped. His father got tired half way into the first round and returned to his starting point along a straight line. What is the ratio of the distances covered by Rahul and his father?

1. $\pi r / (\pi + 2)$
2. $2\pi / (\pi + 2)$
3. 1
4. 2

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.8

The initial monthly salaries of employees John, Riya, and Sunil were in the proportion 4:3:5. After an increase of Rs 10000 monthly to all, the new proportion becomes 6:5:7. What was the initial salary of Sunil?

1. Rs 20000
2. Rs 25000
3. Rs 30000
4. Rs 35000

Options
 1. 1
 2. 2
 3. 3
 4. 4

Question Type : MCQ
 Question ID : 56295482
 Option 1 ID : 562954325
 Option 2 ID : 562954326
 Option 3 ID : 562954327
 Option 4 ID : 562954328
 Status : Answered
 Chosen Option : 2

Question Type : MCQ
 Question ID : 56295484
 Option 1 ID : 562954333
 Option 2 ID : 562954334
 Option 3 ID : 562954335
 Option 4 ID : 562954336
 Status : Answered
 Chosen Option : 2

Q.9

Consider the following statements:

Statement I: All Booklets are Manuals.
Statement II: All Manuals are Catalogues.

If Statements I and II are True, which one of the following conclusions can be conclusively drawn?

1. All Manuals are Booklets.
2. All Catalogues are Booklets.
3. All Booklets are Catalogues.
4. All Catalogues are Manuals.

Options
1. 1
2. 2
3. 3
4. 4

Q.10

Three friends, Mr. Rahman, Mr. George and Mr. Vedant, met after a long time.

They were wearing red, green and violet colour shirts. Mr. Rahman and the person wearing violet shirt noticed that none of the three is wearing a colour that starts with same letter as his name. Which one of the following is the correct match of the persons with the colour of their shirts?

1. Rahman-Violet, George-Red, Vedant-Green
2. Rahman-Green, George-Violet, Vedant-Red
3. Rahman-Green, George-Red, Vedant-Violet
4. Rahman-Red, George-Violet, Vedant-Green

Options
1. 1
2. 2
3. 3
4. 4

Q.11

Suresh asked Ramesh to identify the person in a photo that the latter is holding. Ramesh responds, "I have no brothers or sisters. However, that man's father is my father's son." Who is the person in the photo?

1. Suresh
2. Ramesh
3. Ramesh's son
4. Ramesh's cousin

Options
1. 1
2. 2
3. 3
4. 4

Q.12

A number is mistakenly divided by 2 instead of being multiplied by 2. What is the change in the result caused by this mistake?

1. 25%
2. 50%
3. 75%
4. 100%

Options
1. 1
2. 2
3. 3
4. 4

Q.13

A cylindrical container of radius 20 cm was filled with water up to 25 cm height. A solid spherical ball of radius 7 cm was then immersed in the water. What would be the approximate increase in water level in the container after the ball was fully immersed?

1. 1.14 cm
2. 2.28 cm
3. 5.50 cm
4. 7.00 cm

Options
1. 1
2. 2
3. 3
4. 4

Q.14

Numbers of Rose, Lotus, and Marigold plants in a garden are in the proportion 8:5:7. Later, 75%, 40% and 50% more plants of their respective categories were added. What will be the new proportion of plants, in the same order?

1. 5:3:4
2. 4:2:3
3. 5:4:3
4. 7:4:5

Options
1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 56295476
Option 1 ID : 562954301
Option 2 ID : 562954302
Option 3 ID : 562954303
Option 4 ID : 562954304
Status : Answered
Chosen Option : 3

Question Type : MCQ
Question ID : 56295495
Option 1 ID : 562954377
Option 2 ID : 562954378
Option 3 ID : 562954379
Option 4 ID : 562954380
Status : Answered
Chosen Option : 2

Question Type : MCQ
Question ID : 56295487
Option 1 ID : 562954345
Option 2 ID : 562954346
Option 3 ID : 562954347
Option 4 ID : 562954348
Status : Answered
Chosen Option : 3

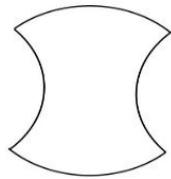
Question Type : MCQ
Question ID : 56295489
Option 1 ID : 562954353
Option 2 ID : 562954354
Option 3 ID : 562954355
Option 4 ID : 562954356
Status : Marked For Review
Chosen Option : 1

Question Type : MCQ
Question ID : 56295480
Option 1 ID : 562954317
Option 2 ID : 562954318
Option 3 ID : 562954319
Option 4 ID : 562954320
Status : Answered
Chosen Option : 1

Question Type : MCQ
Question ID : 56295485
Option 1 ID : 562954337
Option 2 ID : 562954338
Option 3 ID : 562954339
Option 4 ID : 562954340
Status : Answered
Chosen Option : 2

Q.15

A circle of radius 1 unit is divided into four quarters and rejoined as shown below.



Question Type : MCQ
 Question ID : 56295493
 Option 1 ID : 562954369
 Option 2 ID : 562954370
 Option 3 ID : 562954371
 Option 4 ID : 562954372
 Status : Not Answered
 Chosen Option : --

What is the area of this shape?

1. π
2. 1
3. 2
4. 4

Options 1. 1
 2. 2
 3. 3
 4. 4

Q.16

Kavita starts from her house and walks 200 m northward, then turns 45° right and walks 70 m. After that, she turns 90° right and walks 70 m. Which of the following is the closest value of the shortest distance between Kavita's current location and her house?

1. 296 m
2. 240 m
3. 200 m
4. 223 m

Options 1. 1
 2. 2
 3. 3
 4. 4

Q.17

A stock market trader has lost two thirds of her investment on a day. Next day she recovered one third of the previous day's loss. What fraction of her initial investment is she left with?

1. $\frac{1}{3}$
2. $\frac{2}{3}$
3. $\frac{2}{9}$
4. $\frac{5}{9}$

Options 1. 1
 2. 2
 3. 3
 4. 4

Q.18

Sum of the digits of a two-digit number 'ab' is subtracted from the number and the result is divided by 9. Then the result of this will be

1. always a
2. always b
3. neither a nor b
4. either a or b depending on a+b

Options 1. 1
 2. 2
 3. 3
 4. 4

Q.19

In a code, the word DELTOID is written as 3152893. Then LOTION could be written as

1. 582986
2. 582981
3. 198396
4. 198392

Options 1. 1
 2. 2
 3. 3
 4. 4

Question Type : MCQ
 Question ID : 56295483
 Option 1 ID : 562954329
 Option 2 ID : 562954330
 Option 3 ID : 562954331
 Option 4 ID : 562954332
 Status : Answered
 Chosen Option : 4

Question Type : MCQ
 Question ID : 56295494
 Option 1 ID : 562954373
 Option 2 ID : 562954374
 Option 3 ID : 562954375
 Option 4 ID : 562954376
 Status : Not Answered
 Chosen Option : --

Question Type : MCQ
 Question ID : 56295492
 Option 1 ID : 562954365
 Option 2 ID : 562954366
 Option 3 ID : 562954367
 Option 4 ID : 562954368
 Status : Answered
 Chosen Option : 1

Question Type : MCQ
 Question ID : 56295491
 Option 1 ID : 562954361
 Option 2 ID : 562954362
 Option 3 ID : 562954363
 Option 4 ID : 562954364
 Status : Answered
 Chosen Option : 1

Q.20

A car has wheels of diameter 36 cm. If it runs at a speed of 60 km/h, then the rotation per minute (RPM) will be closest to _____.

1. 884
2. 898
3. 906
4. 986

Options 1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 56295479
Option 1 ID : 562954313
Option 2 ID : 562954314
Option 3 ID : 562954315
Option 4 ID : 562954316
Status : Not Answered
Chosen Option : --

Section : PART - B

Q.21

Let $f : \mathbb{C} \rightarrow \mathbb{C}$ be a polynomial map. For $R > 0$, let $\gamma_R : [0, 1] \rightarrow \mathbb{C}$ be the map $t \mapsto Re^{2\pi it}$. Suppose that there exists $c \in \mathbb{R}$ such that

$$\int_0^1 |(f \circ \gamma_R)(t)\gamma'_R(t)| dt \rightarrow c \text{ as } R \rightarrow \infty.$$

Which of the following statements is FALSE?

1. The function $zf(1/z) \rightarrow 0$ as $|z| \rightarrow \infty$.
2. The function f is constant.
3. $c = 0$.
4. $c > 0$.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 562954108
Option 1 ID : 562954429
Option 2 ID : 562954430
Option 3 ID : 562954431
Option 4 ID : 562954432
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.22

Let X_1, X_2, \dots, X_n be a random sample from a continuous distribution with the common probability density function

$$f(x|\theta) = \begin{cases} \frac{2^\theta \theta}{x^{\theta+1}}, & \text{if } x > 2, \\ 0, & \text{otherwise,} \end{cases}$$

where $\theta (> 0)$ is an unknown parameter. Suppose $P(Y > \chi_{m,\beta}^2) = \beta$, where $Y \sim \chi_m^2$. For testing $H_0 : \theta = 1$ against $H_1 : \theta > 1$, a uniformly most powerful test of size α , $0 < \alpha < 1$, will reject H_0 if

1. $\sum_{i=1}^n \ln X_i > \frac{1}{2} \chi_{2n,\alpha}^2 + n \ln 2$
2. $\sum_{i=1}^n \ln X_i < \frac{1}{2} \chi_{2n,1-\alpha}^2 + n \ln 2$
3. $\sum_{i=1}^n \ln X_i > \chi_{n,\alpha}^2 + n \ln 2$
4. $\sum_{i=1}^n \ln X_i < \chi_{n,1-\alpha}^2 + n \ln 2$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 562954130
Option 1 ID : 562954517
Option 2 ID : 562954518
Option 3 ID : 562954519
Option 4 ID : 562954520
Status : Not Answered
Chosen Option : --

Q.23

A mobile manufacturing company uses two brands of batteries for its mobiles. The life (in years) of batteries of Brand I follows an exponential distribution with the probability density function

$$f(x) = \begin{cases} e^{-x}, & \text{if } x > 0, \\ 0, & \text{otherwise,} \end{cases}$$

and that of Brand II follows a gamma distribution with the probability density function

$$g(x) = \begin{cases} \frac{x}{4} e^{-x/2}, & \text{if } x > 0, \\ 0, & \text{otherwise.} \end{cases}$$

The company uses the batteries of Brands I and II in proportion of 20% and 80% respectively, in its mobiles. The probability that a randomly selected mobile has the battery life more than 2 years is

1. $\frac{13}{5} e^{-2}$
2. $\frac{1}{5}(e^{-2} + 2e^{-1})$
3. $\frac{1}{5}(e^{-2} + 8e^{-1})$
4. $\frac{1}{5}(4e^{-2} + 2e^{-1})$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 562954127
Option 1 ID : 562954505
Option 2 ID : 562954506
Option 3 ID : 562954507
Option 4 ID : 562954508
Status : Not Answered
Chosen Option : --

Q.24

Let $V = \{ax^3 + bx^2 + cx \mid a, b, c \in \mathbb{R}\}$. For $f \in V$, define

$$Q(f) = \int_{-1}^1 (f'(t))^2 dt,$$

where f' denotes the derivative of f . Which of the following statements is **FALSE**?

1. Q is a positive definite quadratic form on V .
2. Q takes every positive real value.
3. $Q(x) = 2$.
4. For all $f, g \in V$, $Q(f + g) = Q(f) + Q(g)$.

Options
1. 1
2. 2
3. 3
4. 4

Q.25

Let $y(x)$ be the extremal of the functional

$$J[y] = \int_0^{\frac{\pi}{4}} ((y')^2 - 4y^2 + 2xy) dx$$

subject to $y(0) = 0$, $y\left(\frac{\pi}{4}\right) = 1$. Then $y(x)$ is equal to

1. $\left(1 - \frac{\pi}{4}\right) \sin(2x) + x$
2. $\left(1 - \frac{\pi}{16}\right) \sin(2x) + \frac{x}{4}$
3. $\left(1 + \frac{\pi}{4}\right) \sin(2x) - x$
4. $\left(1 + \frac{\pi}{16}\right) \sin(2x) - \frac{x}{4}$

Options
1. 1
2. 2
3. 3
4. 4

Q.26

Suppose $\begin{pmatrix} X_1 \\ X_2 \\ X_3 \end{pmatrix} \sim N_3 \left(\begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}, \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} \right)$ and $\begin{pmatrix} X \\ Y \\ Z \end{pmatrix} = \begin{pmatrix} 3 & 0 & 0 \\ 2 & 2 & 0 \\ 4 & 0 & 4 \end{pmatrix} \begin{pmatrix} X_1 \\ X_2 \\ X_3 \end{pmatrix}$. Then the partial correlation coefficient $\rho_{YZ|X}$ is

1. $\frac{1}{2}$
2. $\frac{2}{3}$
3. $\frac{3}{4}$
4. 0

Options
1. 1
2. 2
3. 3
4. 4

Q.27

A biased six-faced die is tossed once. Suppose that the probability of any prime number showing up is twice that of any non-prime number showing up. Then, the probability that an odd number will show up is

1. $\frac{1}{3}$
2. $\frac{2}{3}$
3. $\frac{4}{9}$
4. $\frac{5}{9}$

Options
1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 562954107
Option 1 ID : 562954425
Option 2 ID : 562954426
Option 3 ID : 562954427
Option 4 ID : 562954428
Status : Marked For Review
Chosen Option : 4

Question Type : MCQ
Question ID : 562954121
Option 1 ID : 562954481
Option 2 ID : 562954482
Option 3 ID : 562954483
Option 4 ID : 562954484
Status : Answered
Chosen Option : 2

Question Type : MCQ
Question ID : 562954133
Option 1 ID : 562954529
Option 2 ID : 562954530
Option 3 ID : 562954531
Option 4 ID : 562954532
Status : Not Answered
Chosen Option : --

Question Type : MCQ
Question ID : 562954125
Option 1 ID : 562954497
Option 2 ID : 562954498
Option 3 ID : 562954499
Option 4 ID : 562954500
Status : Not Answered
Chosen Option : --

Consider the multiple linear regression model $y_i = \beta_0 + \beta_1 x_{1i} + \cdots + \beta_8 x_{8i} + \epsilon_i$, $i = 1, 2, \dots, 29$, where $\epsilon_1, \epsilon_2, \dots, \epsilon_{29}$ are independent and identically normal distributed with mean 0 and variance σ^2 . Suppose the model is fitted using the method of least squares. If the calculated value of the F -statistic for testing the significance of regression is 2.50, then the possible values of R^2 and Adjusted R^2 are respectively

1. 0.30 and 0.10
2. 0.50 and 0.30
3. 0.50 and 0.16
4. 0.30 and -0.10

Options 1. 1
2. 2
3. 3
4. 4

Q.29

Which of the following statements is true?

1. The ideal $2\mathbb{Z}[i]$ is maximal in $\mathbb{Z}[i]$.
2. The ideal $X\mathbb{C}[X, Y]$ is maximal in $\mathbb{C}[X, Y]$.
3. The set of all polynomials in $\mathbb{C}[X]$ whose coefficients add up to 0 is a maximal ideal in $\mathbb{C}[X]$.
4. The ideal $(\sqrt{2} - 1)\mathbb{Z}[\sqrt{2}]$ is maximal in $\mathbb{Z}[\sqrt{2}]$.

Options 1. 1
2. 2
3. 3
4. 4

Q.30

Let A, B be non-empty subsets of \mathbb{N} with cardinality $|A| \geq 2$. Let

$$S_1 = \{f : A \rightarrow B \mid f \text{ is one-to-one}\} \text{ and } S_2 = \{g : B \rightarrow A \mid g \text{ is onto}\}.$$

Which of the following statements is true?

1. If $A \subsetneq B$ and B is finite, then there is a one-to-one map from S_2 to S_1 .
2. If $B = \mathbb{N}$, then there exists a one-to-one map from S_2 to B .
3. If $B = \mathbb{N}$ and A is finite, then there exists a one-to-one map from B to S_1 .
4. If A is finite, then S_2 is finite for any B .

Options 1. 1
2. 2
3. 3
4. 4

Q.31

Let $(\lambda_n)_{n \in \mathbb{N}}$ be the sequence of eigenvalues of the Sturm-Liouville problem

$$\frac{d}{dx} \left(x \frac{dy}{dx} \right) + \frac{\lambda}{x} y = 0, \quad 1 < x < e^{2\pi},$$

$$y(1) = 0, \quad y(e^{2\pi}) = 0.$$

Then $\sum_{n=1}^{\infty} \frac{1}{\lambda_n}$ is equal to

1. $\frac{\pi^2}{12}$
2. $\frac{2\pi^2}{3}$
3. $\frac{\pi^2}{4}$
4. $\frac{\pi^2}{16}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 562954132
Option 1 ID : 562954525
Option 2 ID : 562954526
Option 3 ID : 562954527
Option 4 ID : 562954528
Status : Not Answered
Chosen Option : --

Question Type : MCQ
Question ID : 562954114
Option 1 ID : 562954453
Option 2 ID : 562954454
Option 3 ID : 562954455
Option 4 ID : 562954456
Status : Not Attempted and Marked For Review
Chosen Option : --

Question Type : MCQ
Question ID : 562954198
Option 1 ID : 562954389
Option 2 ID : 562954390
Option 3 ID : 562954391
Option 4 ID : 562954392
Status : Not Attempted and Marked For Review
Chosen Option : --

Question Type : MCQ
Question ID : 562954117
Option 1 ID : 562954465
Option 2 ID : 562954466
Option 3 ID : 562954467
Option 4 ID : 562954468
Status : Not Attempted and Marked For Review
Chosen Option : --

Let p, q be non-negative integers. Consider the following statements:

(A) There is an integer $k \geq 1$ such that

$$p + k = q.$$

(B) There is an integer $k \geq 1$ such that

$$q + k = p.$$

Which of the following statements is true?

1. There exist non-negative integers p, q such that both (A) and (B) are true.
2. Both (A) and (B) are false if and only if $p = q$.
3. For all non-negative integers p and q , (A) or (B) is true.
4. There exists $p \neq q$ such that both (A) and (B) are false.

Options
1. 1
2. 2
3. 3
4. 4

Q.33

Suppose we want to estimate the population mean \bar{Y} of a variable for a finite population of size 85, with 34 Statisticians and 51 Biologists. We consider the following sampling scheme:

A stratified random sample with 2 strata of Statisticians (Stratum-1) and Biologists (Stratum-2), where 12 Statisticians and 15 Biologists are drawn from Stratum-1 and Stratum-2, respectively, using SRSWOR scheme.

Denote \bar{y}_S , \bar{y}_B , and \bar{y} as the mean of the variable among the Statistician sample, Biologist sample, and the combined sample, respectively. Which of the following is an unbiased estimator of \bar{Y} ?

1. \bar{y}
2. $\frac{2\bar{y}_S + 3\bar{y}_B}{5}$
3. $\frac{4\bar{y}_S + 5\bar{y}_B}{9}$
4. $\frac{\bar{y}_S + \bar{y}_B}{\frac{1}{12} + \frac{1}{15}}$

Options
1. 1
2. 2
3. 3
4. 4

Q.34

Which of the following statements is true?

1. There exists an entire function f such that $f^{(n)}(0) = \frac{n!}{n^n}$ for all positive integers n .
2. There exists an entire function f such that $f^{(n)}(0) = n!n^n$ for all positive integers n .
3. There exists an entire function f such that $f^{(n)}(0) = (n-1)!$ for all positive integers n .
4. There exists an entire function f such that $f^{(n)}(0) = n!n$ for all positive integers n .

Options
1. 1
2. 2
3. 3
4. 4

Q.35

Consider the real matrix $A = \begin{pmatrix} 29 & 0 & 55 & 17 \\ 1 & 28 & 46 & 26 \\ 17 & 13 & 33 & 38 \\ 21 & 67 & 0 & 13 \end{pmatrix}$. What is the largest real eigenvalue of A ?

1. 101
2. 67
3. 103
4. 113

Options
1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 56295496
Option 1 ID : 562954381
Option 2 ID : 562954382
Option 3 ID : 562954383
Option 4 ID : 562954384
Status : Answered
Chosen Option : 2

Question Type : MCQ
Question ID : 562954134
Option 1 ID : 562954533
Option 2 ID : 562954534
Option 3 ID : 562954535
Option 4 ID : 562954536
Status : Not Answered
Chosen Option : --

Question Type : MCQ
Question ID : 562954110
Option 1 ID : 562954437
Option 2 ID : 562954438
Option 3 ID : 562954439
Option 4 ID : 562954440
Status : Not Attempted and Marked For Review
Chosen Option : --

Question Type : MCQ
Question ID : 562954105
Option 1 ID : 562954417
Option 2 ID : 562954418
Option 3 ID : 562954419
Option 4 ID : 562954420
Status : Answered
Chosen Option : 1

Let $u = u(x, t)$ be the solution of

$$\frac{\partial^2 u}{\partial t^2} - \frac{\partial^2 u}{\partial x^2} = 0, \quad x \in \mathbb{R}, \quad t > 0,$$

$$u(x, 0) = 1 + x^2, \quad x \in \mathbb{R},$$

$$\frac{\partial u}{\partial t}(x, 0) = x + 1, \quad x \in \mathbb{R}.$$

Question Type : MCQ
 Question ID : 562954119
 Option 1 ID : 562954473
 Option 2 ID : 562954474
 Option 3 ID : 562954475
 Option 4 ID : 562954476
 Status : Marked For Review
 Chosen Option : 4

Then the value of $u(1, 1)$ is

1. 2
2. 3
3. 4
4. 5

Options 1. 1
 2. 2
 3. 3
 4. 4

Which of the following polynomials is the characteristic polynomial of a real 2×2 matrix A such that $\text{trace}(A) = 7$ and $\text{trace}(A^2) = 29$?

1. $t^2 + 7t + 10$
2. $t^2 - 7t + 29$
3. $t^2 - 7t - 10$
4. $t^2 - 7t + 10$

Options 1. 1
 2. 2
 3. 3
 4. 4

For each $n \geq 1$, let $f_n : [0, 1] \rightarrow \mathbb{R}$ be defined as

$$f_n(x) = \begin{cases} nx & \text{if } x \in [0, \frac{1}{n}], \\ 2 - nx & \text{if } x \in (\frac{1}{n}, \frac{2}{n}], \\ 0 & \text{if } x \in (\frac{2}{n}, 1]. \end{cases}$$

Question Type : MCQ
 Question ID : 562954102
 Option 1 ID : 562954405
 Option 2 ID : 562954406
 Option 3 ID : 562954407
 Option 4 ID : 562954408
 Status : Answered
 Chosen Option : 4

Which of the following statements is true?

1. $(f_n)_{n \geq 1}$ converges uniformly on $[0, 1]$ to a continuous function f .
2. $(f_n)_{n \geq 1}$ converges pointwise on $[0, 1]$ to a discontinuous function f .
3. $(f_n)_{n \geq 1}$ converges pointwise on $[0, 1]$ to a continuous function f .
4. $(f_n)_{n \geq 1}$ does not converge pointwise on $[0, 1]$.

Options 1. 1
 2. 2
 3. 3
 4. 4

Let Z_1, Z_2, \dots be a sequence of independent and identically distributed random variables having discrete uniform distribution over $\{1, 2, \dots, 2024\}$. Let $Y_n = \sum_{i=1}^n Z_i$, $n \geq 2$. Further, let X_n be the remainder when Y_n is divided by 2025. Then, which of the following statements is true?

1. $\lim_{n \rightarrow \infty} P(X_n = 0) = \frac{1}{2026}$
2. $\lim_{n \rightarrow \infty} P(X_n = 0) = \frac{1}{2025}$
3. $\lim_{n \rightarrow \infty} P(X_n = 0) = \frac{1}{2024}$
4. $\lim_{n \rightarrow \infty} P(X_n = 0) = \frac{1}{2023}$

Question Type : MCQ
 Question ID : 562954101
 Option 1 ID : 562954401
 Option 2 ID : 562954402
 Option 3 ID : 562954403
 Option 4 ID : 562954404
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Options 1. 1
 2. 2
 3. 3
 4. 4

Question Type : MCQ
 Question ID : 562954126
 Option 1 ID : 562954501
 Option 2 ID : 562954502
 Option 3 ID : 562954503
 Option 4 ID : 562954504
 Status : Not Answered
 Chosen Option : --

Let A be a subring of the field of rationals \mathbb{Q} such that for any nonzero rational $r \in \mathbb{Q}$, $r \in A$ or $1/r \in A$. Which of the following statements is **FALSE**?

1. The set $\left\{a \in A : \frac{1}{a} \notin A\right\} \cup \{0\}$ is an additive subgroup of \mathbb{Q} .
2. A has at most one maximal ideal.
3. If $A \neq \mathbb{Q}$, then A has infinitely many prime ideals.
4. For any nonzero $a, b \in A$, a divides b or b divides a in A .

Question Type : MCQ
 Question ID : 562954113
 Option 1 ID : 562954449
 Option 2 ID : 562954450
 Option 3 ID : 562954451
 Option 4 ID : 562954452
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Options
 1. 1
 2. 2
 3. 3
 4. 4

Let $C[0, \pi]$ be the real vector space of real-valued continuous functions on the closed interval $[0, \pi]$. For positive integers n , define $f_n \in C[0, \pi]$ by

$$f_n(x) = \begin{cases} \frac{\sin(nx)}{\sin x} & \text{if } x \in (0, \pi), \\ n & \text{if } x = 0, \\ (-1)^{n-1}n & \text{if } x = \pi. \end{cases}$$

Question Type : MCQ
 Question ID : 562954106
 Option 1 ID : 562954421
 Option 2 ID : 562954422
 Option 3 ID : 562954423
 Option 4 ID : 562954424
 Status : Answered
 Chosen Option : 4

Let V be the real subspace of $C[0, \pi]$ spanned by $\{f_1, f_2, f_3\}$. Consider the inner product on V given by

$$\langle f, g \rangle = \frac{2}{\pi} \int_0^\pi f(x)g(x) \sin^2 x dx.$$

Which of the following statements is true?

1. $f_4 \in V$
2. $\{f_1, f_2, f_3\}$ is an orthonormal basis of V .
3. The dimension of V is 2.
4. $\{f_1, f_2, f_3\}$ is an orthogonal set but not orthonormal.

Options
 1. 1
 2. 2
 3. 3
 4. 4

Let X be a random sample of size 1 from the probability density function

$$f(x|\theta) = \begin{cases} \frac{3}{\theta^3}(\theta - x)^2, & \text{if } 0 < x < \theta, \\ 0, & \text{otherwise.} \end{cases}$$

Question Type : MCQ
 Question ID : 562954129
 Option 1 ID : 562954513
 Option 2 ID : 562954514
 Option 3 ID : 562954515
 Option 4 ID : 562954516
 Status : Not Answered
 Chosen Option : --

If $\left(\frac{X}{1-\lambda_1}, \frac{X}{1-\lambda_2}\right)$ is a confidence interval for θ with confidence coefficient $1 - \alpha$, where $\lambda_i \in (0, 1)$, $i = 1, 2$, $\lambda_1 < \lambda_2$, and $\alpha \in (0, 1)$, then which of the following statements is true?

1. $\lambda_2^2 - \lambda_1^2 = 1 - \alpha$
2. $\lambda_2^3 - \lambda_1^3 = 1 - \alpha$
3. $\lambda_2^2 - \lambda_1^2 = 4(1 - \alpha)$
4. $\lambda_2^3 - \lambda_1^3 = 9(1 - \alpha)$

Options
 1. 1
 2. 2
 3. 3
 4. 4

Consider a discrete random variable X with the probability mass function

$$P(X = 0) = \frac{\theta}{3}, \quad P(X = 1) = 1 - \frac{\theta}{2}, \quad P(X = 2) = \frac{\theta}{6},$$

Question Type : MCQ
 Question ID : 562954128
 Option 1 ID : 562954509
 Option 2 ID : 562954510
 Option 3 ID : 562954511
 Option 4 ID : 562954512
 Status : Not Answered
 Chosen Option : --

where $\theta \in (0, 1)$ is an unknown parameter. In a random sample of size 90 from this distribution, the observed counts for $X = 0, 1$ and 2 are 20, 60 and 10, respectively. Then, the maximum likelihood estimate of θ is

1. $\frac{1}{3}$
2. $\frac{1}{2}$
3. $\frac{2}{3}$
4. $\frac{3}{4}$

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.44

Suppose that we have a data set consisting of $2n + 1$ observations for some $n \in \mathbb{N}$. Value of each observation is either x or $x + r$, where $x \in \mathbb{N}$, $r \geq 0$. Then, which of the following statements is always true?

1. The mean and median of the data will be different if and only if $r > 0$
2. Variance of the data is positive if and only if $r > 0$
3. Mean and mode of the data will be same if and only if $r = 0$
4. Median and mode of the data will be same for all values of $r \geq 0$

Options 1. 1
2. 2
3. 3
4. 4

Q.45

Let $f : \mathbb{R} \setminus \mathbb{Q} \rightarrow \mathbb{R} \setminus \mathbb{Q}$ be the function defined as

$$f(x) = \frac{3x + 2}{4x + 3}.$$

Let $x_1 \in \mathbb{R} \setminus \mathbb{Q}$. For $n \geq 1$, define $x_{n+1} = f(x_n)$. Suppose that the sequence $(x_n)_{n \geq 1}$ converges to a real number ℓ . Which of the following statements is true?

1. If ℓ is positive, then $\ell = \frac{\sqrt{3}}{2}$.
2. If ℓ is positive, then $\ell = \frac{1}{\sqrt{2}}$.
3. If ℓ is negative, then $\ell = -\frac{\sqrt{3}}{2}$.
4. If ℓ is negative, then $\ell = -\frac{1}{2}$.

Options 1. 1
2. 2
3. 3
4. 4

Q.46

Let $S = \{1, 2, 3, 4, 5\}$ be equipped with the topology $\tau = \{\emptyset, \{1\}, S\}$. What is the number of homeomorphisms of S onto itself?

1. 25
2. 120
3. 24
4. 6

Options 1. 1
2. 2
3. 3
4. 4

Q.47

Let f be an entire function such that $f(\mathbb{C}) \subset \{x + iy \mid y = x + 1\}$. Which of the following statements is true?

1. $|f(z)| \rightarrow \infty$ as $|z| \rightarrow \infty$.
2. $\frac{f(z)}{z} \rightarrow 0$ as $|z| \rightarrow \infty$.
3. $zf(z) \rightarrow 0$ as $|z| \rightarrow \infty$.
4. $f(z) \rightarrow 0$ as $|z| \rightarrow \infty$.

Options 1. 1
2. 2
3. 3
4. 4

Q.48

Which of the following statements is true?

1. $p \nmid 1 + (p - 1)!$ for some odd prime p .
2. $p \mid (1234)^{p-1} - 1$ for all primes $p > 700$.
3. There exist $a \in \mathbb{Z}$ and a prime $p > 11$ such that $p \nmid a^p - a$.
4. $p \nmid \frac{(p^2)!}{(p!)^2}$ for some odd prime p .

Options 1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 562954124
Option 1 ID : 562954493
Option 2 ID : 562954494
Option 3 ID : 562954495
Option 4 ID : 562954496
Status : Not Answered
Chosen Option : --

Question Type : MCQ
Question ID : 56295499
Option 1 ID : 562954393
Option 2 ID : 562954394
Option 3 ID : 562954395
Option 4 ID : 562954396
Status : Marked For Review
Chosen Option : 2

Question Type : MCQ
Question ID : 562954115
Option 1 ID : 562954457
Option 2 ID : 562954458
Option 3 ID : 562954459
Option 4 ID : 562954460
Status : Not Answered
Chosen Option : --

Question Type : MCQ
Question ID : 562954111
Option 1 ID : 562954441
Option 2 ID : 562954442
Option 3 ID : 562954443
Option 4 ID : 562954444
Status : Answered
Chosen Option : 2

Question Type : MCQ
Question ID : 562954112
Option 1 ID : 562954445
Option 2 ID : 562954446
Option 3 ID : 562954447
Option 4 ID : 562954448
Status : Answered
Chosen Option : 3

Let X be the \mathbb{R} -vector space of all twice differentiable real valued functions on $[0, 1]$. Consider the linear map $\phi : X \rightarrow \mathbb{R}^3$ defined by $\phi(f) = (f(1), f'(1), f''(1))$. Which of the following statements is true?

1. The dimension of $X/\ker \phi$ is 3.
2. $\ker \phi$ is finite dimensional.
3. The dimension of $X/\ker \phi$ is 1.
4. X is finite dimensional.

Options
1. 1
2. 2
3. 3
4. 4

Q.50

If $\varphi(x) = x$ is a solution of the ordinary differential equation (ODE)

$$\frac{d^2y}{dx^2} - \left(\frac{2}{x^2} + \frac{1}{x} \right) \left(x \frac{dy}{dx} - y \right) = 0, \quad 0 < x < \infty,$$

then the general solution of the ODE is given by

1. $(a + be^{-2x})x$, $a, b \in \mathbb{R}$
2. $(a + be^{2x})x$, $a, b \in \mathbb{R}$
3. $ae^x + bx$, $a, b \in \mathbb{R}$
4. $(a + be^x)x$, $a, b \in \mathbb{R}$

Options
1. 1
2. 2
3. 3
4. 4

Q.51

Suppose the distribution of X given θ is normal with mean θ and variance 15. Further, let the prior (improper) distribution of θ be proportional to 1, $-\infty < \theta < \infty$. If the observed value of X is 13, then which of the following statements is true?

1. Posterior mean = Maximum likelihood estimate of θ , Posterior variance = $\text{Var}(X|\theta)$
2. Posterior mean = Maximum likelihood estimate of θ , Posterior variance < $\text{Var}(X|\theta)$
3. Posterior mean > Maximum likelihood estimate of θ , Posterior variance = $\text{Var}(X|\theta)$
4. Posterior mean > Maximum likelihood estimate of θ , Posterior variance < $\text{Var}(X|\theta)$

Options
1. 1
2. 2
3. 3
4. 4

Q.52

If the function $s : [0, 4] \rightarrow \mathbb{R}$ defined by

$$s(x) = \begin{cases} a(x-2)^2 + b(x-1)^2, & 0 \leq x \leq 1, \\ (x-2)^2, & 1 < x \leq 3, \\ 2c(x-2)^2 + (x-3)^3, & 3 < x \leq 4 \end{cases}$$

is a cubic spline, then the value of $2a + b + 2c$ is

1. 2
2. 3
3. 4
4. 5

Options
1. 1
2. 2
3. 3
4. 4

Question Type : MCQ
Question ID : 562954104
Option 1 ID : 562954413
Option 2 ID : 562954414
Option 3 ID : 562954415
Option 4 ID : 562954416

Status : Not Attempted and Marked For Review
Chosen Option : --

Question Type : MCQ
Question ID : 562954116
Option 1 ID : 562954461
Option 2 ID : 562954462
Option 3 ID : 562954463
Option 4 ID : 562954464

Status : Not Attempted and Marked For Review
Chosen Option : --

Question Type : MCQ
Question ID : 562954131
Option 1 ID : 562954521
Option 2 ID : 562954522
Option 3 ID : 562954523
Option 4 ID : 562954524
Status : Not Answered
Chosen Option : --

Question Type : MCQ
Question ID : 562954120
Option 1 ID : 562954477
Option 2 ID : 562954478
Option 3 ID : 562954479
Option 4 ID : 562954480

Status : Not Attempted and Marked For Review
Chosen Option : --

Q.53

Let

$$f(x) = x \log_e \left(1 + \frac{1}{x} \right)$$

for $x \in (0, \infty)$. Which of the following statements is true?

Question Type : MCQ
 Question ID : 562954100
 Option 1 ID : 562954397
 Option 2 ID : 562954398
 Option 3 ID : 562954399
 Option 4 ID : 562954400
 Status : Answered
 Chosen Option : 2

1. f is unbounded.
2. f is increasing.
3. $\lim_{x \rightarrow \infty} f(x) = 2$.
4. f is decreasing.

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.54

Suppose a dynamical system has the Lagrangian

$$L = (\dot{q}_1)^2 + (\dot{q}_2)^2 + (q_1)^2 + \dot{q}_1 \dot{q}_2$$

If p_1 and p_2 are momenta conjugate to q_1 and q_2 , respectively, then which of the following statements is true?

Question Type : MCQ
 Question ID : 562954123
 Option 1 ID : 562954489
 Option 2 ID : 562954490
 Option 3 ID : 562954491
 Option 4 ID : 562954492
 Status : Not Answered
 Chosen Option : --

1. $\dot{p}_1 = 2q_1, \dot{p}_2 = 0$
2. $\dot{p}_1 = -q_1, \dot{p}_2 = 0$
3. $\dot{p}_1 = -\frac{q_1}{2}, p_2 = q_2$
4. $\dot{p}_1 = q_1, p_2 = -q_2$

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.55

Let $u = u(x, y)$ be the solution to the Cauchy problem

$$(y + u) \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = x - y, \quad x \in \mathbb{R}, y > 0, \quad u(x, 1) = 1 + x, \quad x \in \mathbb{R}.$$

Question Type : MCQ
 Question ID : 562954118
 Option 1 ID : 562954469
 Option 2 ID : 562954470
 Option 3 ID : 562954471
 Option 4 ID : 562954472
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Then which of the following statements is true?

1. $u(1, 1) = 2$
2. $u(2, 2) = 4$
3. $u(3, 3) = \frac{3}{2}$
4. $u(4, 4) = \frac{2}{3}$

Options
 1. 1
 2. 2
 3. 3
 4. 4

Let

$$\begin{aligned}
 A &= \left\{ \frac{p}{q} \in (0, 1) : p \in \mathbb{N}, q = 2^n \text{ for some } n \in \mathbb{N} \cup \{0\}, \gcd(p, q) = 1 \right\}, \\
 B &= \left\{ \frac{p}{q} \in (0, 1) : p \in \mathbb{N}, q = 2^n 5^m \text{ for some } n, m \in \mathbb{N} \cup \{0\}, \gcd(p, q) = 1 \right\}, \\
 C &= \left\{ \frac{p}{q} \in (0, 1) : \frac{p}{q} \text{ has terminating decimal expansion} \right\}
 \end{aligned}$$

be subsets of $(0, 1)$. Which of the following statements is true?

1. $A \subsetneq C$ and $B \subsetneq C$
2. $A \subsetneq C \subsetneq B$
3. $A \subsetneq B \subsetneq C$
4. $A \subsetneq B = C$

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.57

Let X be the image of the interval $[0, 1]$ under the Möbius transformation $f(z) = \frac{z - i}{z + i}$.

Which of the following statements is true?

1. X is the line segment joining -1 and $-i$.
2. $X = \{e^{i\theta} \mid \theta \in [\pi, \frac{3\pi}{2}]\}$.
3. X is the line segment joining -1 to 1 .
4. $X = \{e^{i\theta} \mid \theta \in [-\frac{\pi}{2}, \pi]\}$.

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.58

Solve the following linear programming problem:

$$\text{maximize } z = x + y$$

subject to

$$5x + 3y \leq 30$$

$$2x + 6y \leq 25$$

$$2x - y \leq 8$$

$$x \geq 0, y \geq 0.$$

Then the optimal value of the objective function is

1. $\frac{45}{11}$
2. $\frac{74}{11}$
3. $\frac{85}{12}$
4. $\frac{25}{6}$

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.59

Let \mathbb{F}_5 denote the field with 5 elements. How many 2×2 matrices with entries in \mathbb{F}_5 have rank one?

1. 125
2. 144
3. 145
4. 480

Options
 1. 1
 2. 2
 3. 3
 4. 4

Question Type : MCQ
 Question ID : 56295497
 Option 1 ID : 562954385
 Option 2 ID : 562954386
 Option 3 ID : 562954387
 Option 4 ID : 562954388
 Status : Not Answered
 Chosen Option : --

Question Type : MCQ
 Question ID : 562954109
 Option 1 ID : 562954433
 Option 2 ID : 562954434
 Option 3 ID : 562954435
 Option 4 ID : 562954436
 Status : Not Answered
 Chosen Option : --

Question Type : MCQ
 Question ID : 562954135
 Option 1 ID : 562954537
 Option 2 ID : 562954538
 Option 3 ID : 562954539
 Option 4 ID : 562954540
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Question Type : MCQ
 Question ID : 562954409
 Option 1 ID : 562954409
 Option 2 ID : 562954410
 Option 3 ID : 562954411
 Option 4 ID : 562954412
 Status : Answered
 Chosen Option : 2

If $y(x)$ is the solution of the integral equation

$$y(x) = x^2 + 2 \int_0^1 xty(t) dt,$$

Question Type : **MCQ**
 Question ID : **562954122**
 Option 1 ID : **562954485**
 Option 2 ID : **562954486**
 Option 3 ID : **562954487**
 Option 4 ID : **562954488**
 Status : **Marked For Review**
 Chosen Option : **4**

then which of the following statements is true?

1. $y(0) + y(1) = \frac{1}{2}$
2. $y(-1) + y(1) = 1$
3. $y'(0) + y'(1) = \frac{3}{2}$
4. $y'(-1) + y'(1) = 3$

Options 1. 1
 2. 2
 3. 3
 4. 4

Section : PART - C

Q.61

Let the random vector $\begin{pmatrix} X_1 \\ X_2 \\ X_3 \end{pmatrix}$ have the positive definite dispersion matrix $\begin{pmatrix} 1 & \rho & \rho \\ \rho & 1 & \rho \\ \rho & \rho & 1 \end{pmatrix}$.

Then, which of the following statements are true?

Question Type : **MSQ**
 Question ID : **562954192**
 Option 1 ID : **562954765**
 Option 2 ID : **562954766**
 Option 3 ID : **562954767**
 Option 4 ID : **562954768**
 Status : **Not Answered**
 Chosen Option : **--**

1. ρ may be -0.47
2. The first principal component can only explain 32% of the total variation for some ρ
3. The second principal component can explain more than 32% of the total variation for any ρ
4. The variance of the first principal component is $1 + 2\rho$ for any ρ

Options 1. 1
 2. 2
 3. 3
 4. 4

Q.62

If the incidence matrix of a block design is given by $N = \begin{bmatrix} 1 & 1 & 1 & 0 \\ 1 & 1 & 0 & 1 \\ 1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 1 \end{bmatrix}$, then which of the following statements are true?

Question Type : **MSQ**
 Question ID : **562954193**
 Option 1 ID : **562954769**
 Option 2 ID : **562954770**
 Option 3 ID : **562954771**
 Option 4 ID : **562954772**
 Status : **Not Answered**
 Chosen Option : **--**

1. The design is incomplete
2. The design is connected
3. The design is balanced
4. The design is orthogonal

Options 1. 1
 2. 2
 3. 3
 4. 4

Q.63

Let f and K be such that the solution of the initial value problem

$$y'' - 3y' + 2y = 4 \sin(x), \quad y(0) = 1, \quad y'(0) = -2$$

Question Type : **MSQ**
 Question ID : **562954176**
 Option 1 ID : **562954701**
 Option 2 ID : **562954702**
 Option 3 ID : **562954703**
 Option 4 ID : **562954704**
 Status : **Not Attempted and Marked For Review**
 Chosen Option : **--**

satisfies the Volterra integral equation

$$y(x) = f(x) + \int_0^x K(x,t)y(t) dt.$$

Then which of the following statements are true?

1. $f'(\pi) = 3$
2. $f(\pi) + f'(\pi) = 4 - \pi$
3. $f(\pi) + f'(\pi) = 2 - \pi$
4. $f(0) + f'(0) = -4$

Options 1. 1
 2. 2
 3. 3
 4. 4

Consider a paired data $(x_i, y_i); i = 1, 2, 3, 4, 5$, where $(x_1, x_2, x_3, x_4, x_5) = (-2, -1, 0, 1, 2)$ and $y_i = x_i^2$ for all $i = 1, 2, 3, 4, 5$. On this data, a simple linear regression model with an intercept term and a simple linear regression model without an intercept term are fitted using the method of least squares. Which of the following statements are true ?

1. The two fitted lines have the same slope
2. The two fitted models have the same intercept
3. The model with intercept passes through at least one of the observed data points
4. The model without intercept passes through at least one of the observed data points

Options
1. 1
2. 2
3. 3
4. 4

Let G be a group, H a subgroup of G , and $T = \{gH \mid g \in G\}$, the set of all left cosets of H in G . Let S_T be the set of all permutations of T and $\pi : G \longrightarrow S_T$ be the map defined by $\pi(g)(g_1H) = gg_1H$. For a prime number p , let \mathbb{F}_p denote the field with p elements. In which of the following cases is $\ker \pi$ trivial?

1. $G = \mathrm{GL}_2(\mathbb{F}_p)$ and H is a subgroup of order p .
2. $G = \mathrm{SL}_2(\mathbb{F}_p)$ and H is a subgroup of order p .
3. $p \equiv 3 \pmod{4}$, $G = \mathrm{GL}_2(\mathbb{F}_p)/\mathrm{SL}_2(\mathbb{F}_p)$ and H is a subgroup of order 2.
4. $p \equiv 1 \pmod{4}$, $G = \mathrm{GL}_2(\mathbb{F}_p)/\mathrm{SL}_2(\mathbb{F}_p)$ and H is a subgroup of order 2.

Options
1. 1
2. 2
3. 3
4. 4

For $\alpha \geq 0$, consider the functional

$$J_\alpha[y] = \int_1^2 \frac{(y')^2}{x^\alpha} dx$$

defined for all continuously differentiable functions defined on the interval $[1, 2]$ satisfying the conditions

$$y(1) = 1, y(2) = 2.$$

Then which of the following statements are true?

1. $y(x) = \frac{1}{15}(x^4 + 14)$ is an extremal for J_3
2. $y(x) = \frac{1}{3}(x^2 + 2)$ is an extremal for J_1
3. $y(x) = x$ is an extremal for J_0
4. $y(x) = \frac{1}{2}(x^2 - x + 2)$ is an extremal for J_1

Options
1. 1
2. 2
3. 3
4. 4

Question Type : **MSQ**
Question ID : 562954190
Option 1 ID : 562954757
Option 2 ID : 562954758
Option 3 ID : 562954759
Option 4 ID : 562954760
Status : **Not Answered**
Chosen Option : --

Question Type : **MSQ**
Question ID : 562954158
Option 1 ID : 562954629
Option 2 ID : 562954630
Option 3 ID : 562954631
Option 4 ID : 562954632
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Question Type : **MSQ**
Question ID : 562954173
Option 1 ID : 562954689
Option 2 ID : 562954690
Option 3 ID : 562954691
Option 4 ID : 562954692
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Which of the following matrices are similar over \mathbb{R} to the matrix

$$A = \begin{pmatrix} -1 & 1 & 0 & 0 \\ 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 1 \end{pmatrix} \quad ?$$

Question Type : **MSQ**
 Question ID : **562954151**
 Option 1 ID : **562954601**
 Option 2 ID : **562954602**
 Option 3 ID : **562954603**
 Option 4 ID : **562954604**
 Status : **Answered**
 Chosen Option : **1,4**

1. $\begin{pmatrix} 0 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 2 \\ 0 & 0 & 1 & 0 \end{pmatrix}$
2. $\begin{pmatrix} 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & -2 \\ 0 & 0 & 1 & 0 \end{pmatrix}$
3. $\begin{pmatrix} 0 & 1 & 1 & 0 \\ 1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{pmatrix}$
4. $\begin{pmatrix} 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{pmatrix}$

Options 1. 1
 2. 2
 3. 3
 4. 4

Let μ denote the Lebesgue measure on \mathbb{R} . Suppose that f is a non-negative Lebesgue measurable function on \mathbb{R} . Let $0 = a_0 < a_1 < a_2 < \dots$ be an unbounded sequence such that

$$a_{n+1} \leq ca_n$$

for some real number c and for all $n \geq 1$. Let

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$$A_k = \{x \in \mathbb{R} \mid a_k \leq f(x) < a_{k+1}\}$$

for each $k \geq 0$. Which of the following statements are true?

1. If f is Lebesgue integrable on \mathbb{R} , then $\sum_{k \geq 0} a_k \mu(A_k)$ is finite.
2. If $\sum_{k \geq 0} a_k \mu(A_k)$ is finite, then f is Lebesgue integrable on \mathbb{R} .
3. If $\sum_{k \geq 0} a_k \mu(A_k)$ is finite, and $f(x) \geq a_1$ for all $x \in \mathbb{R}$, then f is Lebesgue integrable on \mathbb{R} .
4. If $\sum_{k \geq 0} a_k \mu(A_k)$ is finite and f is bounded, then f is Lebesgue integrable on \mathbb{R} .

Question Type : **MSQ**
 Question ID : **562954142**
 Option 1 ID : **562954565**
 Option 2 ID : **562954566**
 Option 3 ID : **562954567**
 Option 4 ID : **562954568**
 Status : **Not Answered**
 Chosen Option : **--**

Options 1. 1
 2. 2
 3. 3
 4. 4

Let X and Y be independent and identically distributed $N(0, 1)$ random variables. Let $S = X^2 + Y^2$ and $T = e^{-(X^2+Y^2)/2}$. Then, which of the following statements are true?

1. The probability density function of S is

$$f_S(s) = \begin{cases} \frac{1}{2}e^{-s/2}, & \text{if } s > 0, \\ 0, & \text{otherwise.} \end{cases}$$

2. The probability density function of T is

$$f_T(t) = \begin{cases} 1, & \text{if } 0 < t < 1, \\ 0, & \text{otherwise.} \end{cases}$$

3. $\text{Var}(S) = 2$.

4. $E(T) = \frac{2}{3}$

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.70

Let $(X_1, Y_1), (X_2, Y_2), \dots, (X_{10}, Y_{10})$ be a random sample from a bivariate normal distribution $\text{BVN}(\mu_1, \mu_2, \sigma_1^2, \sigma_2^2, \rho)$ with $\mu_1 = 5$, $\mu_2 = 6$, $\sigma_1^2 = 4$, $\sigma_2^2 = 9$ and $\rho = \frac{1}{2}$. Then, which of the following statements are true?

1. The distribution of $\frac{1}{\sqrt{7}} \sum_{i=1}^{10} (X_i - Y_i + 1)$ is $N(0, 10)$
2. The distribution of $\frac{1}{19} \sum_{i=1}^{10} (X_i + Y_i - 11)^2$ is χ^2 -distribution with degrees of freedom 10
3. The distribution of $\frac{2\sqrt{2}(X_1 - 5)}{\sqrt{\sum_{i=3}^{10} (X_i - 5)^2}}$ is t -distribution with degrees of freedom 9
4. The distribution of $\frac{2 \sum_{i=1}^3 (Y_i - 6)^2}{\sum_{i=4}^9 (Y_i - 6)^2}$ is F -distribution with degrees of freedom 3 and 6.

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.71

Let X_1, X_2, \dots, X_n ($n \geq 3$) be a random sample from the uniform distribution on the interval $(\theta_1 - \theta_2, \theta_1 + \theta_2)$, where $\theta_1 \in \mathbb{R}$ and $\theta_2 > 0$ are unknown parameters. Let $X_{(j)}$ be the j^{th} order statistic, $j = 1, 2, \dots, n$, and let $\bar{X} = \frac{1}{n} \sum_{i=1}^n X_i$. Here, $(X_{(1)}, X_{(n)})$ is a complete and sufficient statistic for (θ_1, θ_2) . Then, which of the following statements are true?

1. \bar{X} is an unbiased estimator of θ_1
2. $(\bar{X} - X_{(1)})$ is an unbiased estimator of θ_2
3. $\frac{X_{(1)} + X_{(n)}}{2}$ is the uniformly minimum variance unbiased estimator of θ_1
4. $\frac{(n+1)(X_{(n)} - X_{(1)})}{2(n-1)}$ is the uniformly minimum variance unbiased estimator of θ_2

Options
 1. 1
 2. 2
 3. 3
 4. 4

Question Type : MSQ
 Question ID : 562954182
 Option 1 ID : 562954725
 Option 2 ID : 562954726
 Option 3 ID : 562954727
 Option 4 ID : 562954728
 Status : Not Answered
 Chosen Option : --

Question Type : MSQ
 Question ID : 562954183
 Option 1 ID : 562954729
 Option 2 ID : 562954730
 Option 3 ID : 562954731
 Option 4 ID : 562954732
 Status : Not Answered
 Chosen Option : --

Question Type : MSQ
 Question ID : 562954185
 Option 1 ID : 562954737
 Option 2 ID : 562954738
 Option 3 ID : 562954739
 Option 4 ID : 562954740
 Status : Not Answered
 Chosen Option : --

Q.72

Consider a Markov chain $\{X_n : n \geq 1\}$ on state space $\{1, 2, 3, 4, 5\}$ with the transition probability matrix

$$P = \begin{pmatrix} 0 & \frac{1}{2} & \frac{1}{2} & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & \frac{1}{3} & 0 & \frac{1}{3} & \frac{1}{3} \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

Then, which of the following statements are true?

1. Stationary distribution is $(0, 0, 0, 0, 1)$.
2. State 5 is absorbing and recurrent.
3. All states are aperiodic.
4. $\lim_{n \rightarrow \infty} p_{55}^{(n)} = 1$.

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.73

Let $T : \mathbb{C}^7 \rightarrow \mathbb{C}^7$ be a \mathbb{C} -linear operator with eigenvalues 2, 3 and 5. Consider the subspace

$$W := \{v \in \mathbb{C}^7 : (T - 5I)^k v = 0 \text{ for some integer } k \geq 0\}$$

of \mathbb{C}^7 . Suppose that $(T - 2I)^2(T - 3I)^2(T - 5I)^2 = 0$. Which of the following statements are necessarily true?

1. T has at least four linearly independent eigenvectors.
2. $\dim W \geq 2$.
3. $\ker((T - 2I)^{2025}) = \ker((T - 2I)^{2026})$
4. $(T - 2I)(T - 3I)$ is a nilpotent operator.

Options
 1. 1
 2. 2
 3. 3
 4. 4

Q.74

Let f and g be real-valued Riemann integrable functions on $[a, b]$ such that $g([a, b]) \subseteq [a, b]$. Which of the following statements are necessarily true?

1. The composition $f \circ g$ is Riemann integrable.
2. If $g(x) \neq 0$ for each $x \in [a, b]$, then $\frac{f}{g}$ is Riemann integrable.
3. The positive square root $\sqrt{f^2 + g^2}$ is Riemann integrable.
4. The composition $f \circ g$ is Riemann integrable, if both f and g are continuous.

Options
 1. 1
 2. 2
 3. 3
 4. 4

Question Type : MSQ

Question ID : 562954180

Option 1 ID : 562954717

Option 2 ID : 562954718

Option 3 ID : 562954719

Option 4 ID : 562954720

Status : Marked For Review

Chosen Option : 1,2,4

Question Type : MSQ

Question ID : 562954150

Option 1 ID : 562954597

Option 2 ID : 562954598

Option 3 ID : 562954599

Option 4 ID : 562954600

Status : Answered

Chosen Option : 1,2,4

Question Type : MSQ

Question ID : 562954141

Option 1 ID : 562954561

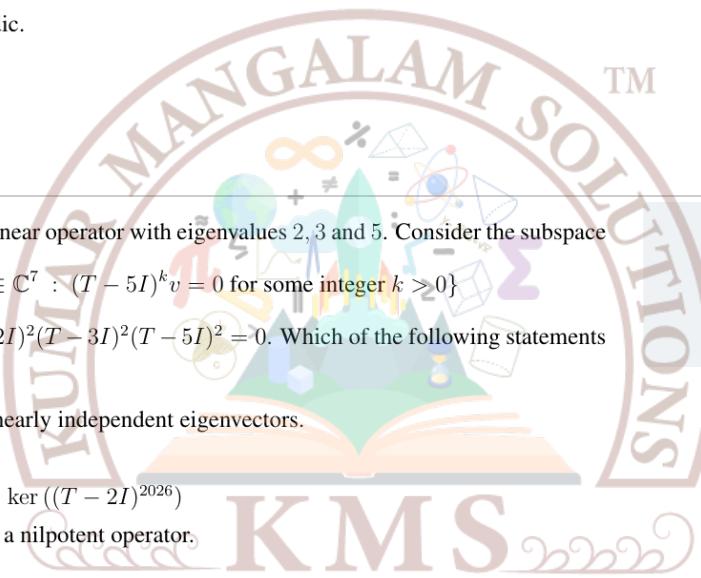
Option 2 ID : 562954562

Option 3 ID : 562954563

Option 4 ID : 562954564

Status : Answered

Chosen Option : 2,3,4



If $\alpha, \beta \in \mathbb{R}$ are such that the equation

$$\int_0^3 f(x) dx = \frac{3}{2} [f(\alpha) + f(\alpha + \beta)]$$

holds for all polynomials $f(x)$ of degree less than or equal to 2, then which of the following statements are true?

Question Type : **MSQ**
 Question ID : 562954172
 Option 1 ID : 562954685
 Option 2 ID : 562954686
 Option 3 ID : 562954687
 Option 4 ID : 562954688
 Status : **Not Answered**
 Chosen Option : --

1. $(\alpha, \beta) = \left(\frac{3 - \sqrt{3}}{2}, \sqrt{3} \right)$ or $(\alpha, \beta) = \left(\frac{3 + \sqrt{3}}{2}, -\sqrt{3} \right)$
2. $(\alpha, \beta) = \left(\frac{3 - \sqrt{2}}{2}, \sqrt{2} \right)$ or $(\alpha, \beta) = \left(\frac{3 + \sqrt{2}}{2}, -\sqrt{2} \right)$
3. $(\alpha, \beta) = \left(\frac{3 - \sqrt{5}}{2}, \sqrt{5} \right)$ or $(\alpha, \beta) = \left(\frac{3 + \sqrt{5}}{2}, -\sqrt{5} \right)$
4. $(\alpha, \beta) = \left(\frac{3 - \sqrt{7}}{2}, \sqrt{7} \right)$ or $(\alpha, \beta) = \left(\frac{3 + \sqrt{7}}{2}, -\sqrt{7} \right)$

Options 1. 1
 2. 2
 3. 3
 4. 4

Let $\mathbb{D}^\times = \{z \in \mathbb{C} : 0 < |z| < 1\}$ be the punctured unit disk and f be a bijective holomorphic map of \mathbb{D}^\times onto itself. Which of the following statements are true?

Question Type : **MSQ**
 Question ID : 562954157
 Option 1 ID : 562954625
 Option 2 ID : 562954626
 Option 3 ID : 562954627
 Option 4 ID : 562954628
 Status : **Answered**
 Chosen Option : 2,4

1. $\lim_{z \rightarrow 0} f(z)$ does not exist.
2. $\lim_{z \rightarrow 0} f(z)$ exists and has absolute value ≤ 1 .
3. $\lim_{z \rightarrow 0} f(z) = 0$
4. There exists $\theta \in \mathbb{R}$ such that $f(z) = e^{i\theta} z$ for all $z \in \mathbb{D}^\times$.

Options 1. 1
 2. 2
 3. 3
 4. 4

Let f be an entire function which is not a polynomial. Let

$$A = \{\alpha \in \mathbb{C} \mid f^{(n)}(\alpha) \neq 0 \text{ for all } n \geq 0\}.$$

Question Type : **MSQ**
 Question ID : 562954154
 Option 1 ID : 562954613
 Option 2 ID : 562954614
 Option 3 ID : 562954615
 Option 4 ID : 562954616
 Status : **Answered**
 Chosen Option : 1,3,4

Which of the following statements are true?

1. A is nonempty.
2. A is finite.
3. A is infinite.
4. A is uncountable.

Options 1. 1
 2. 2
 3. 3
 4. 4

For each $n \geq 1$, let $f_n : \mathbb{R} \rightarrow \mathbb{R}$ be a function defined by

$$f_n(x) = \frac{e^{-n^2 x^2}}{n}.$$

Question Type : **MSQ**
 Question ID : 562954140
 Option 1 ID : 562954557
 Option 2 ID : 562954558
 Option 3 ID : 562954559
 Option 4 ID : 562954560
 Status : **Answered**
 Chosen Option : 2,3

Which of the following statements are true?

1. $(f_n)_{n \geq 1}$ converges uniformly to 0 on \mathbb{R} , and $(f'_n)_{n \geq 1}$ converges uniformly to 0 on the interval $(-M, M)$ for some positive real number M .
2. $(f_n)_{n \geq 1}$ converges uniformly to 0 on \mathbb{R} , and $(f'_n)_{n \geq 1}$ converges pointwise to 0 on \mathbb{R} .
3. $(f_n)_{n \geq 1}$ converges uniformly to 0 on \mathbb{R} and $(f'_n)_{n \geq 1}$ does not converge pointwise to 0 on \mathbb{R} .
4. $(f_n)_{n \geq 1}$ converges pointwise to 0 on \mathbb{R} but not uniformly on \mathbb{R} .

Options 1. 1
 2. 2
 3. 3
 4. 4

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Question List

SR No.	Question ID	Correct Options/Answers	Options/Answers for Challenge
1.	56295476	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
2.	56295477	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these

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3.	56295478	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
4.	56295479	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
5.	56295480	1	<input checked="" type="checkbox"/> 1

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5.	56295480	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
6.	56295481	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
7.	56295482	2	<input type="checkbox"/> 1

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7.	56295482	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
8.	56295483	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
9.	56295484	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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9.	56295484	2	 A circular logo for Kumar Mangalam SNEDE KMS Decoding Math. It features a central rocket ship launching from a book, surrounded by various mathematical symbols like infinity, percent, division, multiplication, equals, less than, greater than, and sigma. The text "KUMAR MANGALAM SNEDE" is curved along the top, and "KMS DECODING MATH" is in the center.	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
10.	56295485	2	 A circular logo for Kumar Mangalam SNEDE KMS Decoding Math. It features a central rocket ship launching from a book, surrounded by various mathematical symbols like infinity, percent, division, multiplication, equals, less than, greater than, and sigma. The text "KUMAR MANGALAM SNEDE" is curved along the top, and "KMS DECODING MATH" is in the center.	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
11.	56295486	2		<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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			these
11.	56295486	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
12.	56295487	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
13.	56295488	2	<input type="checkbox"/> 1

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13.	56295488	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
14.	56295489	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
15.	56295490	4	<input type="checkbox"/> 1

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			these
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16.	56295491	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
17.	56295492	1	<input checked="" type="checkbox"/> 1

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			or these TM
17.	56295492	1  2 3 4 <input checked="" type="checkbox"/> None of these	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
18.	56295493	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these

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19.	56295494	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
20.	56295495	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
21.	56295496	2	<input type="checkbox"/> 1

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21.	56295496	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
22.	56295497	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
23.	56295498	3	<input type="checkbox"/> 1 -

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23.	56295498	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
24.	56295499	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
25.	562954100	2	<input type="checkbox"/> 1

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			these
25.	562954100	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
26.	562954101	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
27.	562954102	4	<input type="checkbox"/> 1

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			these
27.	562954102	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
28.	562954103	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
29	562954104	1	<input checked="" type="checkbox"/> 1

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29.	562954104	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
30.	562954105	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
31.	562954106	2	<input type="checkbox"/> 1 -

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31.	562954106	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
32.	562954107	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
33	562954108	4	<input type="checkbox"/> 1

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Question List

			these
33.	562954108	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
34.	562954109	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
35.	562954110	1	<input checked="" type="checkbox"/> 1

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35.	562954110	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
36.	562954111	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
37.	562954112	2	<input type="checkbox"/> 1

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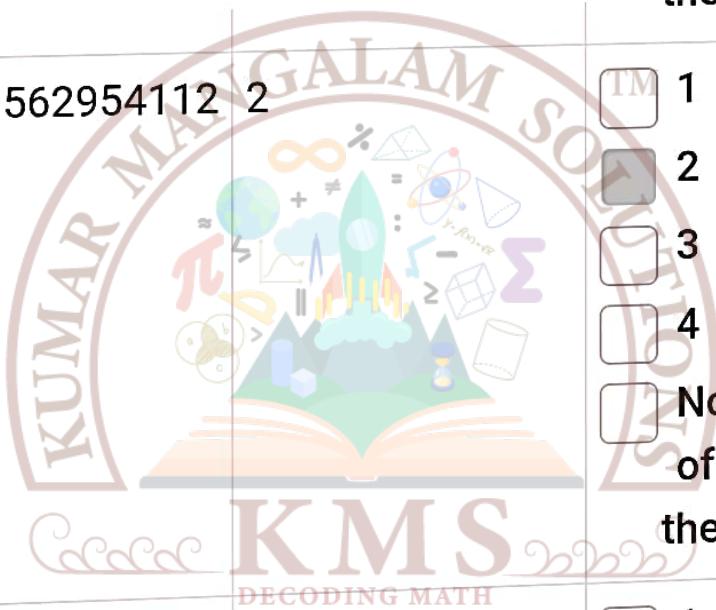
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37.	562954112	2	 KMS DECODING MATH	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
38.	562954113	3		<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
39.	562954114	3		<input type="checkbox"/> 1

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			these
39.	562954114	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
40.	562954115	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
41.	562954116	4	<input type="checkbox"/> 1

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41.	562954116	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
42.	562954117	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
43.	562954118	1	<input checked="" type="checkbox"/> 1

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Question List

43.	562954118	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
44.	562954119	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
45.	562954120	2	<input type="checkbox"/> 1

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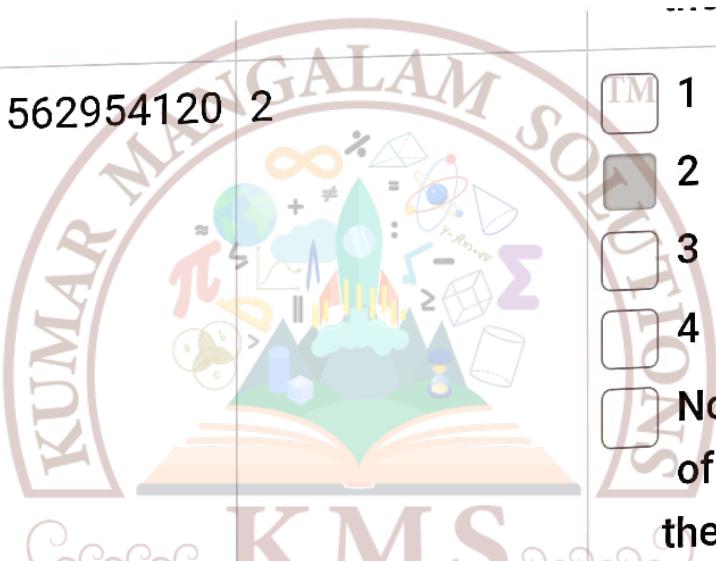
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45.	562954120	2	 KMS DECODING MATH	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
46.	562954121	2		<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
47.	562954122	4		<input type="checkbox"/> 1

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			these
47.	562954122	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
48.	562954123	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
49.	562954124	4	<input type="checkbox"/> 1

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49.	562954124	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
50.	562954125	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
51.	562954126	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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			these
51.	562954126	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
52.	562954127	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
53.	562954128	3	<input checked="" type="checkbox"/> 1

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Question List

			these
53.	562954128	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
54.	562954129	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
55.	562954130	2	<input checked="" type="checkbox"/> 1

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55.	562954130	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
56.	562954131	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
57.	562954132	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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57.	562954132	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
58.	562954133	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
59.	562954134	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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			These
59.	562954134	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
60.	562954135	3	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
61.	562954136	1,2	<input checked="" type="checkbox"/> 1

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61.	562954136	1,2	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
62.	562954137	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
63.	562954138	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2

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63.	562954138	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
64.	562954139	1,2,4	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
65.	562954140	2	<input type="checkbox"/> 1

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66.	562954141	3,4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
67.	562954142	1,3	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
68.	562954143	2,3	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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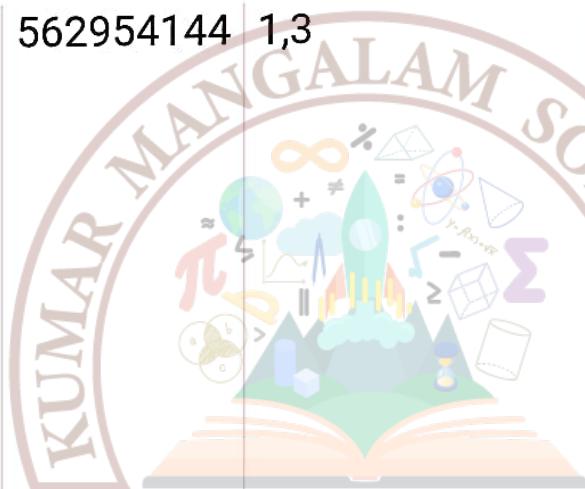
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69. 562954144 1,3



<input checked="" type="checkbox"/>	1
<input type="checkbox"/>	2
<input checked="" type="checkbox"/>	3
<input type="checkbox"/>	4
<input type="checkbox"/>	None of these

70. 562954145 2,3

KMS
DECODING MATH

<input type="checkbox"/>	1
<input checked="" type="checkbox"/>	2
<input checked="" type="checkbox"/>	3
<input type="checkbox"/>	4
<input type="checkbox"/>	None of these

71. 562954146 3,4

<input type="checkbox"/>	1
<input type="checkbox"/>	2

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72.	562954147	1,2,3,4	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
73.	562954148	1,2	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
74.	562954149	1,2,4	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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75.	562954150	1,3	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
76.	562954151	1,3	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
77.	562954152	1,2,3,4	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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78.	562954153	2,4	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
79.	562954154	1,3,4	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
80.	562954155	2,3	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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81.	562954156	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
82.	562954157	2,3,4	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
83.	562954158	1,2	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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84.	562954159	4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
85.	562954160	1,2	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
86.	562954161	1,2,3	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2

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87.	562954162	2	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
88.	562954163	2,3,4	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
89.	562954164	1,4	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2

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90.	562954165	1,2	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
91.	562954166	2,3	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
92.	562954167	1,2,4	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2

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93.	562954168	1,3,4	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
94.	562954169	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
95.	562954170	1,4	<input checked="" type="checkbox"/> 1

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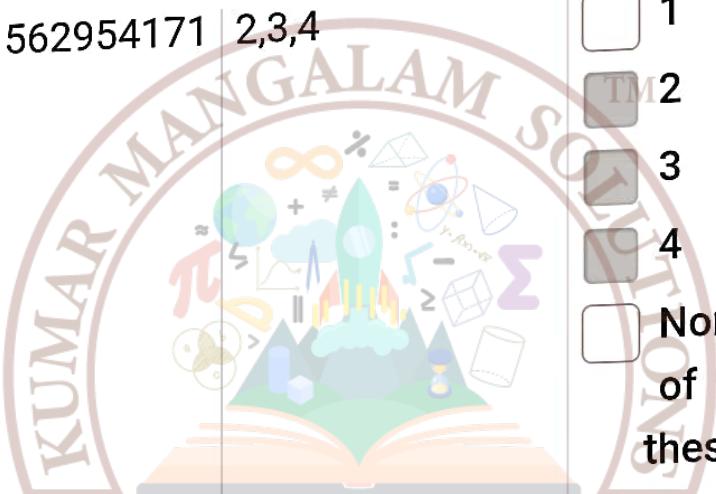
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96.	562954171	2,3,4	 A circular watermark in the background of the table cells features the text "KUMAR MANGALAM SCHOOL" around the top and "ANSWER SHEET" at the bottom. In the center is a colorful illustration of a rocket launching from a book, surrounded by various mathematical symbols like infinity, percent, division, multiplication, less than or equal to, greater than or equal to, and sigma.	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
97.	562954172	1	 A watermark in the background of the table cells features the text "KMS" in large letters and "DECODING MATH" in smaller letters below it.	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
98.	562954173	1,2,3		<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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99.	562954174	2,3,4	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
100.	562954175	1,2,3	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
101.	562954176	1,2,4	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2

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102.	562954177	1,2,3,4	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
103.	562954178	2,3,4	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
104.	562954179	1,3	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2

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105.	562954180	1,2,3,4	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
106.	562954181	1,3	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
107.	562954182	1,2	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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108.	562954183	1,2,4	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
109.	562954184	3,4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
110.	562954185	1,3,4	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2

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111.	562954186	1,3	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
112.	562954187	1,2,3	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
113.	562954188	4	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2

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114.	562954189	1,4	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
115.	562954190	1,4	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these
116.	562954191	1,3	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2

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117.	562954192	1	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
118.	562954193	1,2,3	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
119.	562954194	1,3	<input checked="" type="checkbox"/> 1

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119.	562954194	1,3	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> None of these
120.	562954195	2,4	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> None of these

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NATIONAL TESTING AGENCY**CSIR-UGC NET JUNE 2025****FINAL ANSWER KEY****Exam Date : 28.07.2025****Exam Shift : 2****Subject: (704) MATHEMATICAL SCIENCES**

Question ID	Correct Option No.	Question ID	Correct Option No.	Question ID	Correct Option No.
56295476	3	562954126	2	562954176	1,2,4
56295477	3	562954127	3	562954177	1,2,3,4
56295478	2	562954128	3	562954178	2,3,4
56295479	1	562954129	2	562954179	1,3
56295480	1	562954130	2	562954180	1,2,3,4
56295481	3	562954131	1	562954181	1,3
56295482	2	562954132	2	562954182	1,2
56295483	4	562954133	4	562954183	1,2,4
56295484	2	562954134	2	562954184	3,4
56295485	2	562954135	3	562954185	1,3,4
56295486	2	562954136	1,2	562954186	1,3
56295487	3	562954137	2	562954187	1,2,3
56295488	2	562954138	1	562954188	4
56295489	3	562954139	1,2,4	562954189	1,4
56295490	4	562954140	2	562954190	1,4
56295491	1	562954141	3,4	562954191	1,3
56295492	1	562954142	1,3	562954192	1
56295493	3	562954143	2,3	562954193	1,2,3
56295494	4	562954144	1,3	562954194	1,3
56295495	2	562954145	2,3	562954195	2,4
56295496	2	562954146	3,4		
56295497	4	562954147	1,2,3,4		
56295498	3	562954148	1,2		
56295499	2	562954149	1,2,4		
562954100	2	562954150	1,3		
562954101	3	562954151	1,3		
562954102	4	562954152	1,2,3,4		
562954103	2	562954153	2,4		
562954104	1	562954154	1,3,4		
562954105	1	562954155	2,3		
562954106	2	562954156	4		
562954107	4	562954157	2,3,4		
562954108	4	562954158	1,2		
562954109	2	562954159	4		
562954110	1	562954160	1,2		
562954111	2	562954161	1,2,3		
562954112	2	562954162	2		
562954113	3	562954163	2,3,4		
562954114	3	562954164	1,4		
562954115	3	562954165	1,2		
562954116	4	562954166	2,3		
562954117	2	562954167	1,2,4		
562954118	1	562954168	1,3,4		
562954119	4	562954169	1		
562954120	2	562954170	1,4		
562954121	2	562954171	2,3,4		
562954122	4	562954172	1		
562954123	1	562954173	1,2,3		
562954124	4	562954174	1,2,3,4		
562954125	4	562954175	1,2,3		