

Question Booklet opened on June 11/2026 at 01:55 PM  
for uploading on University website.  
Neha Phogat  
11/06/2026  
11/06/2026  
11/06/2026

**SET-“Y”** (Total No. of printed pages : 17)

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU ARE ASKED TO DO SO)

**UG-4 Year-EE-June, 2026**  
**STATISTICS**

Code

**A**

Sr. No. **10109**

Time : 1¼ Hours

Total Questions : 100

Max. Marks : 100

Roll No. \_\_\_\_\_ (in figure) \_\_\_\_\_ (in words)

Name : \_\_\_\_\_ Date of Birth : \_\_\_\_\_

Father's Name : \_\_\_\_\_ Mother's Name : \_\_\_\_\_

Date of Examination : \_\_\_\_\_

(Signature of the candidate)

(Signature of the Invigilator)

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**SET-Y**  
**Code-A**

Question No.	Questions
25.	If $\log_2 x + \log_2 (x-2) = 3$ , then $x =$ (1) 4 (2) 5 (3) 6 (4) 8
26.	If $x - y = \pi$ then $\frac{dy}{dx} = ?$ (1) 0 (2) 1 (3) 2 (4) 3
27.	$\log_a b \cdot \log_b c \cdot \log_c a = ?$ (1) 0 (2) 1 (3) a (4) b
28.	If roots of $x^2 - 6x + k = 0$ are equal, then $k = ?$ (1) 6 (2) 8 (3) 9 (4) 12
29.	The roots of $x^2 + 5x + 6 = 0$ are (1) -2, -3 (2) 2, 3 (3) -1, -6 (4) 1, 6
30.	If one root of $x^2 - 7x + 10 = 0$ is 5, the other root is : (1) 1 (2) 2 (3) 3 (4) 4
31.	$\sin^2 \theta + \cos^2 \theta = ?$ (1) 0 (2) 1 (3) 2 (4) $\infty$



Question No.	Questions
38.	<p>The order of <math>\left(\frac{d^3y}{dx^3}\right)^2 + \frac{dy}{dx} = 0</math> is</p> <p>(1) 1 (2) 2 (3) 3 (4) 6</p>
39.	<p>If <math>f(x) = \ln(x^2 + 1)</math> then <math>f'(x) = ?</math></p> <p>(1) <math>\frac{1}{x^2+1}</math> (2) <math>\frac{2x}{x^2+1}</math> (3) <math>2x</math> (4) <math>\ln x</math></p>
40.	<p><math>\int \cos x \, dx = ?</math></p> <p>(1) <math>\sin x + c</math> (2) <math>-\sin x + c</math> (3) <math>\cos x + c</math> (4) <math>-\cos x + c</math></p>
41.	<p>A man walks 10 m North and then 10 m East. He is in which direction from the starting point?</p> <p>(1) South-East (2) North-East (3) South-West (4) North-West</p>
42.	<p>If MONDAY is coded as NPOEBZ, then FRIDAY is coded as:</p> <p>(1) GSJEBZ (2) GSJEBZ (3) GRIDAY (4) FSKEBZ</p>
43.	<p>Find the odd one out:</p> <p>(1) Apple (2) Mango (3) Banana (4) Carrot</p>



**SET-Y**  
**Code-A**

Question No.	Questions
51.	If SOUTH is written as HTUOS, then NORTH is: (1) HTRON (2) NROTH (3) HRTON (4) HTRON
52.	A train 100 m long passes a pole in 5 second. Speed : (1) 20 m/s (2) 25 m/s (3) 30 m/s (4) 15 m/s
53.	Which is the smallest prime number ? (1) 0 (2) 1 (3) 2 (4) 3
54.	The average of 10, 20 and 30 is : (1) 15 (2) 20 (3) 25 (4) 30
55.	Find the next term: 1, 4, 9, 16, 25, ____ (1) 30 (2) 35 (3) 36 (4) 49
56.	Suppose that the probability of event A is 0.2 and the probability of event B is 0.4. Also, suppose that the two events are independent. Then $P(A B)$ is: (1) 0.2 (2) 0.5 (3) 0.08 (4) None of the above
57.	If $B \subset A$ , the probability $P(A/B)$ is equal to: (1) $P(A)/P(B)$ (2) $P(B)/P(A)$ (3) Zero (4) One







**SET-Y**  
**Code-A**

Question No.	Questions
72.	If two dice are rolled, what is the probability of getting a sum of 7 ? (1) $1/6$ (2) $4/9$ (3) $1/2$ (4) 2
73.	Which of the following is a sample space for tossing two coins? (1) {HH, HT, TH} (2) {HH, HT, TH, TT} (3) {H, T} (4) {H, T, HT, TH}
74.	In a random experiment, an event that is certain to happen is called: (1) Impossible event (2) Complementary event (3) Certain event (4) Independent event
75.	If $P(A) = 0.3$ and $P(B) = 0.4$ and A and B are independent, what is $P(A \cap B)$ ? (1) 0.7 (2) 0.12 (3) 0.1 (4) 0.04
76.	If a constant 5 is subtract from each observation of a set, the variance is : (1) Reduced by 5 (2) Reduced by 25 (3) Increase by 5 (4) Unaltered
77.	Which measure of dispersion has a different unit other than the unit of measurement of values? (1) Range (2) Mean deviation (3) Standard Deviation (4) Variance
78.	The suitable measure of central tendency for qualitative data is: (1) Mode (2) Geometric mean (3) Mean (4) Median







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S. Kalu  
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**UG-4 Year-EE-June, 2026**  
**STATISTICS**

Code **B**

Sr. No. **10110**

Time : 1¼ Hours

Total Questions : 100

Max. Marks : 100

Roll No. \_\_\_\_\_ (in figure) \_\_\_\_\_ (in words)

Name : \_\_\_\_\_

Date of Birth : \_\_\_\_\_

Father's Name : \_\_\_\_\_

Mother's Name : \_\_\_\_\_

Date of Examination : \_\_\_\_\_

(Signature of the candidate)

(Signature of the Invigilator)

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Question No.	Questions
1.	<p>If <math>z = 1 + i</math>, then <math>z^4</math> equals :</p> <p>(1) <math>-4</math> (2) <math>4</math> (3) <math>-2</math> (4) <math>2</math></p>
2.	<p>The inequality <math>\frac{2}{x} &lt; 3</math> is true, when <math>x</math> belongs to :</p> <p>(1) <math>\left[\frac{2}{3}, \infty\right)</math> (2) <math>\left(-\infty, \frac{2}{3}\right]</math> (3) <math>\left(\frac{2}{3}, \infty\right) \cup (-\infty, 0)</math> (4) None of these</p>
3.	<p>The modulus of <math>\frac{1+i}{1-i}</math> is</p> <p>(1) <math>0</math> (2) <math>1</math> (3) <math>\sqrt{2}</math> (4) <math>2</math></p>
4.	<p>The value of <math>\sin\left(\frac{7\pi}{6}\right)</math> is -</p> <p>(1) <math>\frac{\sqrt{3}}{2}</math> (2) <math>\frac{1}{2}</math> (3) <math>-\frac{1}{\sqrt{2}}</math> (4) <math>\frac{\sqrt{3}}{2}</math></p>
5.	<p>The value of <math>\begin{vmatrix} 1 &amp; 2 &amp; 3 \\ 0 &amp; 1 &amp; 4 \\ 5 &amp; 6 &amp; 0 \end{vmatrix}</math> is-</p> <p>(1) <math>1</math> (2) <math>-1</math> (3) <math>5</math> (4) <math>10</math></p>







Question No.	Questions
28.	The suitable measure of central tendency for qualitative data is: (1) Mode (2) Geometric mean (3) Mean (4) Median
29.	Mean deviation is minimum when deviations are taken from: (1) Mean (2) Median (3) Mode (4) None of these
30.	The point of intersection of two cumulative frequency curves provided: (1) Mean (2) Median (3) Mode (4) Harmonic mean
31.	If SOUTH is written as HTUOS, then NORTH is: (1) HTRON (2) NROTH (3) HRTON (4) HTRON
32.	A train 100 m long passes a pole in 5 second. Speed : (1) 20 m/s (2) 25 m/s (3) 30 m/s (4) 15 m/s
33.	Which is the smallest prime number ? (1) 0 (2) 1 (3) 2 (4) 3
34.	The average of 10, 20 and 30 is : (1) 15 (2) 20 (3) 25 (4) 30
35.	Find the next term: 1, 4, 9, 16, 25, ____ (1) 30 (2) 35 (3) 36 (4) 49







Question No.	Questions
53.	<p>The value of <math>\sin^4 \theta + \cos^4 \theta</math> when <math>\theta = 45^\circ</math> is -</p> <p>(1) <math>\frac{1}{2}</math> (2) <math>\frac{1}{4}</math> (3) <math>\frac{3}{4}</math> (4) 1</p>
54.	<p>If <math>\sec \theta = 2</math> then <math>\tan \theta</math> is</p> <p>(1) <math>\sqrt{3}</math> (2) 2 (3) <math>1/2</math> (4) 1</p>
55.	<p>If <math>\log_2 x + \log_2 (x-2) = 3</math>, then <math>x =</math></p> <p>(1) 4 (2) 5 (3) 6 (4) 8</p>
56.	<p>If <math>x - y = \pi</math> then <math>\frac{dy}{dx} = ?</math></p> <p>(1) 0 (2) 1 (3) 2 (4) 3</p>
57.	<p><math>\log_a b \cdot \log_b c \cdot \log_c a = ?</math></p> <p>(1) 0 (2) 1 (3) a (4) b</p>
58.	<p>If roots of <math>x^2 - 6x + k = 0</math> are equal, then <math>k = ?</math></p> <p>(1) 6 (2) 8 (3) 9 (4) 12</p>
59.	<p>The roots of <math>x^2 + 5x + 6 = 0</math> are</p> <p>(1) -2, -3 (2) 2, 3 (3) -1, -6 (4) 1, 6</p>





**SET-Y**  
**Code-B**

Question No.	Questions
73.	Given that $P(A) = 1/3$ , $P(B) = 1/4$ , $P(A/B) = 1/6$ , the probability $P(B/A)$ is equal to: (1) $1/4$ (2) $3/8$ (3) $1/8$ (4) $2$
74.	There is 80% chance that a problem will be solved by a statistics student and 60% chance is there that the same problem was solved by the mathematics student. The probability that at least the problem will be solved is: (1) 0.48 (2) 0.92 (3) 0.1 (4) 0.75
75.	Given that $P(A) = 1/3$ , $P(B) = 3/4$ , $P(A \cup B) = 11/12$ , the probability $P(B/A)$ is equal to : (1) $1/6$ (2) $4/9$ (3) $1/2$ (4) $2$
76.	Out of 20 employees in a company, five are graduates, Three employees are selected at random. The probability of all the three being graduates is : (1) $1/64$ (2) $1/114$ (3) 1.5 (4) $2/21$
77.	That the chosen item is from the $n^{\text{th}}$ machine, one can simply use: (1) Mathematical definition of probability (2) Statistical definition of probability (3) Conditional probability (4) Bayes' theorem



**SET-Y**  
**Code-B**

Question No.	Questions
82.	If roots of $x^2 - 8x + k = 0$ differ by 2, then k is - (1) 12 (2) 15 (3) 14 (4) 16
83.	The coefficient of $x^4$ in $(1+x)^8$ is - (1) 56 (2) 70 (3) 84 (4) 96
84.	If $\sin\theta + \cos\theta = \sqrt{2}$ , then (1) $\theta = 30^\circ$ (2) $\theta = 45^\circ$ (3) $\theta = 60^\circ$ (4) $\theta = 90^\circ$
85.	The determinant $\begin{vmatrix} 2 & 3 \\ 5 & 7 \end{vmatrix}$ equals (1) -1 (2) 1 (3) 14 (4) 29
86.	If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ , then trace (A) (1) 3 (2) 4 (3) 5 (4) 7
87.	The number of subsets of a set having 8 elements. (1) 128 (2) 256 (3) 512 (4) 1024



**SET-Y**  
**Code-B**

Question No.	Questions
95.	Which measure of dispersion is calculated as the square root of the variance? (1) Range (2) Mean Deviation (3) Standard Deviation (4) Inter quartile Range
96.	Which of the following is not a graphical method for representing data? (1) Bar Graph (2) Pie Chart (3) Histogram (4) Frequency Table
97.	For any given set of positive numbers, which of the following is true regarding A.M., G.M., and H.M.? (1) $A.M. < G.M. < H.M.$ (2) $A.M. = G.M. = H.M.$ (3) $A.M. > G.M. > H.M.$ (4) $G.M. > A.M. > H.M.$
98.	What is the geometric mean of the numbers 2 and 8 ? (1) 4 (2) 6 (3) $\sqrt{16}$ (4) 10
99.	If the data set is {2, 4, 4, 4, 5, 5, 7, 9}, what is the variance? (1) 2.25 (2) 4.50 (3) 3.50 (4) 6.25
100.	What is the harmonic mean of the numbers 1, 2, and 4 ? (1) 1.5 (2) 2 (3) 1.714 (4) 2.5

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**UG-4 Year-EE-June, 2026**  
**STATISTICS**

Code **C**

Sr. No. **10107**

Time : 1¼ Hours

Total Questions : 100

Max. Marks : 100

Roll No. \_\_\_\_\_ (in figure) \_\_\_\_\_ (in words)

Name : \_\_\_\_\_ Date of Birth : \_\_\_\_\_

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Question No.	Questions
1.	A man walks 10 m North and then 10 m East. He is in which direction from the starting point? (1) South-East (2) North-East (3) South-West (4) North-West
2.	If MONDAY is coded as NPOEBZ, then FRIDAY is coded as: (1) GSJEBZ (2) GSJEBZ (3) GRIDAY (4) FSKEBZ
3.	Find the odd one out: (1) Apple (2) Mango (3) Banana (4) Carrot
4.	Which number comes next ? 3, 6, 12, 24, 48, ____ (1) 72 (2) 84 (3) 96 (4) 108
5.	If A is brother of B and B is sister of C, then A is : (1) Brother of C (2) Sister of C (3) Father of C (4) Uncle of C
6.	The angle between clock hands at 3:00 is : (1) 60° (2) 90° (3) 120° (4) 180°
7.	If 20% of a number is 50, the number is : (1) 100 (2) 200 (3) 250 (4) 500



Question No.	Questions
14.	<p>If <math>\sec\theta = 2</math> then <math>\tan\theta</math> is</p> <p>(1) <math>\sqrt{3}</math> (2) 2 (3) <math>1/2</math> (4) 1</p>
15.	<p>If <math>\log_2 x + \log_2 (x-2) = 3</math>, then <math>x =</math></p> <p>(1) 4 (2) 5 (3) 6 (4) 8</p>
16.	<p>If <math>x - y = \pi</math> then <math>\frac{dy}{dx} = ?</math></p> <p>(1) 0 (2) 1 (3) 2 (4) 3</p>
17.	<p><math>\log_a b \cdot \log_b c \cdot \log_c a = ?</math></p> <p>(1) 0 (2) 1 (3) a (4) b</p>
18.	<p>If roots of <math>x^2 - 6x + k = 0</math> are equal, then <math>k = ?</math></p> <p>(1) 6 (2) 8 (3) 9 (4) 12</p>
19.	<p>The roots of <math>x^2 + 5x + 6 = 0</math> are.</p> <p>(1) -2, -3 (2) 2, 3 (3) -1, -6 (4) 1, 6</p>
20.	<p>If one root of <math>x^2 - 7x + 10 = 0</math> is 5, the other root is :</p> <p>(1) 1 (2) 2 (3) 3 (4) 4</p>

Question No.	Questions
21.	If $x + \frac{1}{x} = 5$ , then $x^3 + \frac{1}{x^3}$ equals (1) 110 (2) 115 (3) 120 (4) 125
22.	If roots of $x^2 - 8x + k = 0$ differ by 2, then k is - (1) 12 (2) 15 (3) 14 (4) 16
23.	The coefficient of $x^4$ in $(1+x)^8$ is - (1) 56 (2) 70 (3) 84 (4) 96
24.	If $\sin\theta + \cos\theta = \sqrt{2}$ , then (1) $\theta = 30^\circ$ (2) $\theta = 45^\circ$ (3) $\theta = 60^\circ$ (4) $\theta = 90^\circ$
25.	The determinant $\begin{vmatrix} 2 & 3 \\ 5 & 7 \end{vmatrix}$ equals (1) -1 (2) 1 (3) 14 (4) 29
26.	If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ , then trace (A) (1) 3 (2) 4 (3) 5 (4) 7
27.	The number of subsets of a set having 8 elements. (1) 128 (2) 256 (3) 512 (4) 1024





**SET-Y**  
**Code-C**

Question No.	Questions
42.	In how many ways can a committee of 3 be selected from a group of 10 people? (1) 120 (2) 30 (3) 720 (4) 45
43.	Given that $P(A) = 1/3$ , $P(B) = 1/4$ , $P(A/B) = 1/6$ , the probability $P(B/A)$ is equal to: (1) $1/4$ (2) $3/8$ (3) $1/8$ (4) 2
44.	There is 80% chance that a problem will be solved by a statistics student and 60% chance is there that the same problem was solved by the mathematics student. The probability that at least the problem will be solved is: (1) 0.48 (2) 0.92 (3) 0.1 (4) 0.75
45.	Given that $P(A) = 1/3$ , $P(B) = 3/4$ , $P(A \cup B) = 11/12$ , the probability $P(B/A)$ is equal to : (1) $1/6$ (2) $4/9$ (3) $1/2$ (4) 2
46.	Out of 20 employees in a company, five are graduates, Three employees are selected at random. The probability of all the three being graduates is : (1) $1/64$ (2) $1/114$ (3) 1.5 (4) $2/21$



Question No.	Questions
51.	$\sin^2 \theta + \cos^2 \theta = ?$ (1) 0 (2) 1 (3) 2 (4) $\infty$
52.	If $x = t^2$ , and $y = t^3$ , then $\frac{d^2y}{dx^2} = ?$ (1) $\frac{3}{4t}$ (2) $\sqrt{t}$ (3) $t$ (4) $\frac{3}{2\sqrt{t}}$
53.	If $y = x^4 - 3x^2 + 2$ , then $\frac{dy}{dx}$ at $x = 2$ is (1) 20 (2) 24 (3) 28 (4) 32
54.	$\lim_{x \rightarrow 0} \frac{\sin 5x}{x}$ (1) 0 (2) 1 (3) 5 (4) 25
55.	$\int_0^1 (3x^2 + 2x) dx$ (1) 1 (2) 2 (3) 3 (4) 4
56.	Maximum value of $f(x) = x(6-x)$ is (1) 6 (2) 8 (3) 9 (4) 12

Question No.	Questions
57.	$\frac{d}{dx}(e^{3x}) = ?$ (1) $e^{3x}$ (2) $3e^{3x}$ (3) $xe^{3x}$ (4) $3xe^{3x}$
58.	The order of $\left(\frac{d^3y}{dx^3}\right)^2 + \frac{dy}{dx} = 0$ is (1) 1 (2) 2 (3) 3 (4) 6
59.	If $f(x) = \ln(x^2 + 1)$ then $f'(x) = ?$ (1) $\frac{1}{x^2 + 1}$ (2) $\frac{2x}{x^2 + 1}$ (3) $2x$ (4) $\ln x$
60.	$\int \cos x \, dx = ?$ (1) $\sin x + c$ (2) $-\sin x + c$ (3) $\cos x + c$ (4) $-\cos x + c$
61.	How many ways can the letters in the word "SCHOOL" be arranged? (1) 720 (2) 360 (3) 180 (4) 60
62.	If two dice are rolled, what is the probability of getting a sum of 7? (1) $1/6$ (2) $4/9$ (3) $1/2$ (4) 2







Question No.	Questions
83.	<p>The modulus of <math>\frac{1+i}{1-i}</math> is</p> <p>(1) 0 (2) 1 (3) <math>\sqrt{2}</math> (4) 2</p>
84.	<p>The value of <math>\sin\left(\frac{7\pi}{6}\right)</math> is -</p> <p>(1) <math>\frac{\sqrt{3}}{2}</math> (2) <math>\frac{1}{2}</math> (3) <math>-\frac{1}{\sqrt{2}}</math> (4) <math>\frac{\sqrt{3}}{2}</math></p>
85.	<p>The value of <math>\begin{vmatrix} 1 &amp; 2 &amp; 3 \\ 0 &amp; 1 &amp; 4 \\ 5 &amp; 6 &amp; 0 \end{vmatrix}</math> is-</p> <p>(1) 1 (2) -1 (3) 5 (4) 10</p>
86.	<p>If A is a <math>3 \times 2</math> matrix and B is a <math>2 \times 5</math> matrix, then order of AB is -</p> <p>(1) <math>2 \times 2</math> (2) <math>3 \times 5</math> (3) <math>5 \times 3</math> (4) <math>6 \times 4</math></p>
87.	<p>The sum of first 20 terms of AP 5, 8, 11 ..... is -</p> <p>(1) 650 (2) 670 (3) 690 (4) 710</p>
88.	<p>In the GP 3, 6, 12, ..., the 8<sup>th</sup> term is -</p> <p>(1) 192 (2) 256 (3) 384 (4) 768</p>





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**UG-4 Year-EE-June, 2026**  
**STATISTICS**

Code

**D**

Sr. No. 10108

Time : 1½ Hours

Total Questions : 100

Max. Marks : 100

Roll No. \_\_\_\_\_ (in figure) \_\_\_\_\_ (in words)

Name : \_\_\_\_\_ Date of Birth : \_\_\_\_\_

Father's Name : \_\_\_\_\_ Mother's Name : \_\_\_\_\_

Date of Examination : \_\_\_\_\_

(Signature of the candidate)

(Signature of the Invigilator)

**CANDIDATES MUST READ THE FOLLOWING INFORMATION/  
INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.**

1. All questions are compulsory.
2. The candidates must return the Question book-let as well as OMR answer-sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / mis-behaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
3. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
4. Question Booklet along-with answer key of all the A,B,C and D code will be got uploaded on the University Website after the conduct of Entrance Examination. Candidates may raise valid objection/complaint if any, with regard to discrepancy in the question booklet/answer key within 24 hours of uploading the same on the University website. The complaint be sent by the students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case will be considered.
5. The candidate **MUST NOT** do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question book-let itself. Answers **MUST NOT** be ticked in the Question book-let.
6. **There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.**
7. Use only Black or Blue **BALL POINT PEN** of good quality in the OMR Answer-Sheet.
8. **BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED CORRECT AND COMPLETE BOOK-LET. COMPLAINTS, IF ANY, REGARDING MISPRINTING ETC. WILL NOT BE ENTERTAINED 30 MINUTES AFTER STARTING OF THE EXAMINATION.**





Question No.	Questions
8.	The suitable measure of central tendency for qualitative data is: (1) Mode (2) Geometric mean (3) Mean (4) Median
9.	Mean deviation is minimum when deviations are taken from: (1) Mean (2) Median (3) Mode (4) None of these
10.	The point of intersection of two cumulative frequency curves provided: (1) Mean (2) Median (3) Mode (4) Harmonic mean
11.	If SOUTH is written as HTUOS, then NORTH is: (1) HTRON (2) NROTH (3) HRTON (4) HTRON
12.	A train 100 m long passes a pole in 5 second. Speed : (1) 20 m/s (2) 25 m/s (3) 30 m/s (4) 15 m/s
13.	Which is the smallest prime number ? (1) 0 (2) 1 (3) 2 (4) 3
14.	The average of 10, 20 and 30 is : (1) 15 (2) 20 (3) 25 (4) 30
15.	Find the next term: 1, 4, 9, 16, 25, ____ (1) 30 (2) 35 (3) 36 (4) 49



Question No.	Questions
22.	If $x = t^2$ , and $y = t^3$ , then $\frac{d^2y}{dx^2} = ?$ (1) $\frac{3}{4t}$ (2) $\sqrt{t}$ (3) $t$ (4) $\frac{3}{2\sqrt{t}}$
23.	If $y = x^4 - 3x^2 + 2$ , then $\frac{dy}{dx}$ at $x = 2$ is (1) 20 (2) 24 (3) 28 (4) 32
24.	$\lim_{x \rightarrow 0} \frac{\sin 5x}{x}$ (1) 0 (2) 1 (3) 5 (4) 25
25.	$\int_0^1 (3x^2 + 2x) dx$ (1) 1 (2) 2 (3) 3 (4) 4
26.	Maximum value of $f(x) = x(6-x)$ is (1) 6 (2) 8 (3) 9 (4) 12
27.	$\frac{d}{dx}(e^{3x}) = ?$ (1) $e^{3x}$ (2) $3e^{3x}$ (3) $xe^{3x}$ (4) $3xe^{3x}$

Question No.	Questions
28.	<p>The order of <math>\left(\frac{d^3y}{dx^3}\right)^2 + \frac{dy}{dx} = 0</math> is</p> <p>(1) 1 (2) 2 (3) 3 (4) 6</p>
29.	<p>If <math>f(x) = \ln(x^2 + 1)</math> then <math>f'(x) = ?</math></p> <p>(1) <math>\frac{1}{x^2 + 1}</math> (2) <math>\frac{2x}{x^2 + 1}</math> (3) <math>2x</math> (4) <math>\ln x</math></p>
30.	<p><math>\int \cos x \, dx = ?</math></p> <p>(1) <math>\sin x + c</math> (2) <math>-\sin x + c</math> (3) <math>\cos x + c</math> (4) <math>-\cos x + c</math></p>
31.	<p>If <math>z = 1 + i</math>, then <math>z^4</math> equals :</p> <p>(1) <math>-4</math> (2) <math>4</math> (3) <math>-2</math> (4) <math>2</math></p>
32.	<p>The inequality <math>\frac{2}{x} &lt; 3</math> is true, when <math>x</math> belongs to :</p> <p>(1) <math>\left[\frac{2}{3}, \infty\right)</math> (2) <math>\left(-\infty, \frac{2}{3}\right]</math> (3) <math>\left(\frac{2}{3}, \infty\right) \cup (-\infty, 0)</math> (4) None of these</p>

Question No.	Questions
33.	<p>The modulus of <math>\frac{1+i}{1-i}</math> is</p> <p>(1) 0 (2) 1 (3) <math>\sqrt{2}</math> (4) 2</p>
34.	<p>The value of <math>\sin\left(\frac{7\pi}{6}\right)</math> is -</p> <p>(1) <math>\frac{\sqrt{3}}{2}</math> (2) <math>\frac{1}{2}</math> (3) <math>-\frac{1}{\sqrt{2}}</math> (4) <math>\frac{\sqrt{3}}{2}</math></p>
35.	<p>The value of <math>\begin{vmatrix} 1 &amp; 2 &amp; 3 \\ 0 &amp; 1 &amp; 4 \\ 5 &amp; 6 &amp; 0 \end{vmatrix}</math> is-</p> <p>(1) 1 (2) -1 (3) 5 (4) 10</p>
36.	<p>If A is a <math>3 \times 2</math> matrix and B is a <math>2 \times 5</math> matrix, then order of AB is -</p> <p>(1) <math>2 \times 2</math> (2) <math>3 \times 5</math> (3) <math>5 \times 3</math> (4) <math>6 \times 4</math></p>
37.	<p>The sum of first 20 terms of AP 5, 8, 11 ..... is -</p> <p>(1) 650 (2) 670 (3) 690 (4) 710</p>
38.	<p>In the GP 3, 6, 12, ....., the 8<sup>th</sup> term is -</p> <p>(1) 192 (2) 256 (3) 384 (4) 768</p>



Question No.	Questions
46.	If the standard deviation of a data set is 5, what is the variance? (1) 5 (2) 10 (3) 25 (4) 50
47.	Pie chart represents: (1) Frequency (2) Percentages (3) Mean (4) Variance
48.	Extreme value have no effect on: (1) Mean (2) Median (3) Geometric mean (4) Harmonic mean
49.	If a constant 50 is subtract from each observation of a set, the mean of the set is : (1) Reduced by 50 (2) Reduced by 25 (3) Increased by 50 (4) Unaltered
50.	Which of the following is a measure of central tendency: (1) Variance (2) Median (3) Range (4) Mean Deviation
51.	In a city 60% read newspaper A, 40% read newspaper B and 30% read newspaper C, 20% read A and B, 30% read A and C, 10% read B and C. Also 5% read paper A, B and C. The percentage of people who do not read any of these newspapers is : (1) 90% (2) 75% (3) 25% (4) 40%
52.	In how many ways can a committee of 3 be selected from a group of 10 people? (1) 120 (2) 30 (3) 720 (4) 45





Question No.	Questions
62.	<p>Which type of data is represented by the categories such as "low," "mediumm," and "high"?</p> <p>(1) Nominal Data                      (2) Ordinal Data (3) Discrete Data                      (4) Continuous Data</p>
63.	<p>What type of graph is used to represent continous data with adjacent bars?</p> <p>(1) Bar Graph                              (2) Pie Chart (3) Histogram                              (4) Line Graph</p>
64.	<p>Which measure of central tendency is the middle value when data points are arranged in ascending order?</p> <p>(1) Arithmetic Mean                      (2) Geometric Mean (3) Harmonic Mean                      (4) Median</p>
65.	<p>Which measure of dispersion is calculated as the square root of the variance?</p> <p>(1) Range                                      (2) Mean Deviation (3) Standard Deviation                      (4) Inter quartile Range</p>
66.	<p>Which of the following is not a graphical method for representing data?</p> <p>(1) Bar Graph                              (2) Pie Chart (3) Histogram                              (4) Frequency Table</p>
67.	<p>For any given set of positive numbers, which of the following is true regarding A.M., G.M., and H.M.?</p> <p>(1) A.M. &lt; G.M. &lt; H.M.                      (2) A.M. = G.M. = H.M. (3) A.M. &gt; G.M. &gt; H.M.                      (4) G.M. &gt; A.M. &gt; H.M.</p>
68.	<p>What is the geometric mean of the numbers 2 and 8 ?</p> <p>(1) 4    (2) 6 (3) <math>\sqrt{16}</math>    (4) 10</p>



Question No.	Questions
76.	The angle between clock hands at 3:00 is : (1) $60^\circ$ (2) $90^\circ$ (3) $120^\circ$ (4) $180^\circ$
77.	If 20% of a number is 50, the number is : (1) 100 (2) 200 (3) 250 (4) 500
78.	A sum doubles in 10 years at simple interest, Rate of interest: (1) 5% (2) 10% (3) 12% (4) 15%
79.	If $5+3=28$ , $5+3=28$ , $4+2=18$ , $4+2=18$ , then $6+2=6+2=6+2=?$ (1) 24 (2) 36 (3) 40 (4) 48
80.	Find the missing number: 2, 5, 10, 17, 26, ____ . (1) 35 (2) 37 (3) 39 (4) 41
81.	The value of $\sin 75^\circ$ is (1) $\frac{\sqrt{6} + \sqrt{2}}{4}$ (2) $\frac{\sqrt{6} - \sqrt{2}}{4}$ (3) $\frac{\sqrt{3}}{2}$ (4) $\frac{1}{2}$

Question No.	Questions
82.	$\tan\theta + \cot\theta = 4$ , then $\sin 2\theta$ equals : (1) $\frac{1}{2}$ (2) $\frac{2}{3}$ (3) $\frac{1}{2}$ (4) $\frac{3}{4}$
83.	The value of $\sin^4\theta + \cos^4\theta$ when $\theta = 45^\circ$ is - (1) $\frac{1}{2}$ (2) $\frac{1}{4}$ (3) $\frac{3}{4}$ (4) 1
84.	If $\sec\theta = 2$ then $\tan\theta$ is (1) $\sqrt{3}$ (2) 2 (3) $1/2$ (4) 1
85.	If $\log_2 x + \log_2 (x-2) = 3$ , then $x =$ (1) 4 (2) 5 (3) 6 (4) 8
86.	If $x - y = \pi$ then $\frac{dy}{dx} = ?$ (1) 0 (2) 1 (3) 2 (4) 3
87.	$\log_a b \cdot \log_b c \cdot \log_c a = ?$ (1) 0 (2) 1 (3) a (4) b





Answer keys of Bachelor of Science (Statistics) 4-year entrance test dated 11.06.2026

Q. No.	A	B	C	D
1	2	1	2	2
2	1	3	1	1
3	2	2	4	2
4	2	1	3	3
5	1	1	1	2
6	3	2	2	4
7	2	2	3	4
8	3	3	2	4
9	3	2	3	2
10	2	3	2	2
11	1	4	1	1
12	3	2	3	1
13	2	3	1	3
14	1	1	1	2
15	1	3	1	3
16	2	3	2	1
17	2	2	2	4
18	3	2	3	2
19	2	1	1	4
20	3	2	2	3
21	1	2	2	2
22	3	1	1	1
23	1	2	2	2
24	1	3	2	3
25	1	2	1	2
26	2	4	3	3
27	2	4	2	2
28	3	4	3	3
29	1	2	3	2
30	2	2	2	1
31	2	1	4	1
32	1	1	2	3
33	2	3	3	2
34	3	2	1	1
35	2	3	3	1
36	3	1	3	2
37	2	4	2	2
38	3	2	2	3
39	2	4	1	2
40	1	3	2	3
41	2	2	3	4
42	1	1	1	2
43	4	2	3	3
44	3	3	2	1
45	1	2	3	3
46	2	3	2	3
47	3	2	4	2
48	2	3	4	2
49	3	2	3	1
50	2	1	2	2

*Om*

*S. K. Singh*

*Neeraj*

*Neha Phogat*

Answer keys of Bachelor of Science (Statistics) 4-year entrance test dated 11.06.2026

Q. No.	A	B	C	D
51	1	1	2	3
52	1	3	1	1
53	3	1	2	3
54	2	1	3	2
55	3	1	2	3
56	1	2	3	2
57	4	2	2	4
58	2	3	3	4
59	4	1	2	3
60	3	2	1	2
61	3	2	2	4
62	1	1	1	2
63	3	4	2	3
64	2	3	3	4
65	3	1	2	3
66	2	2	4	4
67	4	3	4	3
68	4	2	4	1
69	3	3	2	1
70	2	2	2	3
71	2	3	4	2
72	1	1	2	1
73	2	3	3	4
74	3	2	4	3
75	2	3	3	1
76	4	2	4	2
77	4	4	3	3
78	4	4	1	2
79	2	3	1	3
80	2	2	3	2
81	4	2	1	1
82	2	1	3	3
83	3	2	2	1
84	4	2	1	1
85	3	1	1	1
86	4	3	2	2
87	3	2	2	2
88	1	3	3	3
89	1	3	2	1
90	3	2	3	2
91	4	4	1	2
92	2	2	1	1
93	3	3	3	2
94	1	4	2	2
95	3	3	3	1
96	3	4	1	3
97	2	3	4	2
98	2	1	2	3
99	1	1	4	3
100	2	3	3	2

*Om*

*S. Lal*  
*Neel Neha Phogat*