Total No. of Printed Pages: 13

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU

ARE ASKED TO DO SO)
UG-4Yr.EE-June, 2025

SET-Y

SUBJECT: B.Sc.-Statistics

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SEAL

1. Which of the following is a	null set ?
(1) {0}	(2) $\{x: x^2 = -1\}$
$(3) \{x: x > 2\}$	(4) {2, 4, 6}
2. The power set of a set with	3 elements contains :
(1) 6 subsets	(2) 4 subsets
(3) 9 subsets	(4) 8 subsets
3. Common ratio of GP: 3, 6,	12, 24 is:
(1) 2	(2) 3
(3) 1	(4) 6
4. The composition of function	ons $f: A \to B$ and $g: B \to C$ is defined as:
(1) f o g	(2) g o f
(3) $f + g$	(4) g + f
5. Sum of first 5 terms of GP	: 1, 2, 4, 8, is:
(1) 31	(2) 30
(3) 32	(4) 15
6. The value of sin (90°) is:	
(1) -1	(2) 0
(3) 1	(4) Undefined
7. The principal value of sin	·1 (1) is:
$(1) \pi$	$(2) \pi/4$
(3) 0	(4) $\pi/2$
8. Thenth term of AP is give	n by :

- - (1) a (n-1) d

(2) a + (n-1) d

(3) a(n-d)

- (4) nd
- 9. Which identity is correct?
 - $(1) \sin^2 x + \cos^2 x = 1$

 $(2) \tan^2 x + 1 = \sec x$

(3) $\sec x$, $\cot x = 1$

 $(4) \sin x = \cot x$

10. If $\tan A = \frac{3}{4}$, then $\sec A$ is:

(1) 5/4

(2) 4/5

(3) 5/3

(4) 5/6

11. The square of imaginary number i is:

(1) 0

(2) 1

(3) -1

(4) i

12. Conjugate of 3 + 4i is:

(1) -3 - 4i

(2) 3 - 4i

(3) -3 + 4i

 $(4) \ 3 + 4i$

13. Modulus of z = 6 - 8i:

(1) 10

(2) 14

(3) $\sqrt{10}$

(4) 2

14. Product of a complex number and its conjugate is:

(1) Imaginary

(2) Zero

(3) Real and positive

(4) Undefined

15. The value of $(1+i)^2$ is:

(1) 1 + 2i

(2) 0

(3) 2

(4) 2i

16. The transpose of matrix A is obtained by:

- (1) Multiplying A by scalar
- (2) Reversing rows
- (3) Interchanging rows and columns
- (4) Taking inverse

17. In binomial expansion, the number of terms in $(x + y)^n$ is:

(1) n

(2) n + 1

(3) 2n

(4) Infinite

18. Middle term in the expansion of $(x + y)^{10}$ is:

(1) 5th

(2) 6th

(3) 7th

(4) 10th

19. Coefficient of x^3 in $(1 +$	$r)^5$	is ·
---	--------	------

(1) 5

(2) 15

(3) 20

(4) 10

20. A matrix with only one row is called:

(1) Column matrix

(2) Scalar matrix

(3) Row matrix

(4) Square matrix

21.
$$\lim_{x \to 0} \frac{\sin x}{x}$$
 is equal to:

(1) 1

(2) 0

(3) ∞

(4) Does not exist

22. Which law holds for limits?

- (1) Limit of product = product of limits (2) Limit of sum = difference of limits
- (3) Limit of quotient = product of limits (4) Limit of constant = 0

23. if $\lim_{x\to a} f(x)$ exists, them f(x) must be:

- (1) Continuous at x = a
- (2) Defined at x = a
- (3) Both left and right limits exist and are equal
- (4) Differentiable

24. Derivative of x^3 is:

(1) 3x

(2) $3x^2$

(3) x^2

(4) $3x^3$

25. If
$$f(x) = \sin x$$
, them $f'(x) =$

 $(1) \cos x$

 $(2) -\cos x$

 $(3) \sin x$

 $(4) -\sin x$

26. Derivative of a constant is:

(1) 0

(2) 1

(3) Undefined

(4) Constant

27.	The product rule of derivatives is:	(2)	fg + fg'
	(1) f.g' (3) f.g'		f + g
28.	Derivative of $\tan x$ is:		2
	$(1) \sec^2 x$		$\cos^2 x$
	(3) $\sin x$	(4)	sec x
29.	If $y = x^2 \cos x$, them the derivative is:		2
	$(1) 2x \cos x - x^2 \sin x$	` '	$x^2 \sin x$
	(3) $x \cos x$	(4)	$2x \sin x$
30.	The derivative of $\log x$ is:		
	(1) 1	(2)	1
		(2) (4)	x r
	$(3) \log x$	(4)	e"
31.	Which function is <i>not</i> differentiable at a	x = 0	?
	(1) kd	(2)	x^2
	(3) $\sin x$	(4)	x^3
32.	Discontinuity occurs when:		
	(1) Left and right limits are equal	(2)	f (a) is not defined
	(3) Left and right limits are not equal	(4)	Function is constant
33.	If a function is differentiable at $x = a$, it	is als	o:
	(1) Discontinuous	(2)	Continuous
	(3) Constant	(4)	None
34.	If $f(x) = x $, then $f(x)$ is:		
	(1) Differentiable everywhere		
	(2) Not continuous		
	(3) Continuous but not differentiable at	t x = 0)
	(4) Discontinuous at $x = 0$		
35.	The derivative of a^x is:		

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(2) ln a

(4) x^{a}

(1) $a^x \ln a$

(3) $a \ln x$

36. The derivative of $ln(x^2)$ is:

	1
(1)	1
	2
	x^{-}

 $(2) \ \frac{2}{x}$

(3) x ln x

(4) ln x

37. Mean Value Theorem is applicable when:

- (1) Function is discontinuous
- (2) Function is differentiable only
- (3) Function is continuous on [a, b] and differentiable on (a, b)
- (4) Function is constant

38. Maximum/minimum value of a function occurs where:

- (1) First derivative is zero
- (2) First derivative is one
- (3) Second derivative is zero
- (4) Function is linear

39. The integral of e^x is:

(1) e

(2) $e^x + c$

(3) x

(4) ln x

40. General solution of $\frac{dy}{dx} = ky$ is :

(1) y = kx

 $(2) \ y = ce^{kx}$

 $(3) y = \log x$

 $(4) \ y = k^x$

41. If ₹1,000 amounts to ₹1,210 in 2 years at compound interest, what is the rate?

(1) 10%

(2) 11%

(3) 5%

(4) 18%

42. What will be next number in the series 3, 6, 18, 72?

(1) 144

(2) 216

(3) 360

(4) 432

43. If CAT = 24 and DOG = 26, then what is the code for RAT?

(1) 35

(2) 36

(3) 38

(4) 40

44.	In a certain code, 'FISH' is written as 'H	UKV'. How is 'BIRD' written?
77.	(1) DJTF	(2) EKSG
	(3) DKTF	(4) EJSF
45.	What is the value of $5 + 3 \times 2 - 4 \div 2$?	
	(1) 10	(2) 9
	(3) 11	(4) 8
46.	A sum of ₹5,000 is invested at 10% per 3 years?	annum simle interest. What is the interest after
	(1) ₹1,500	(2) ₹1,000
	(3) ₹2,000	(4) ₹1,200
47.	If one face of a cube is red, the oppoyellow, white, and black. What color is	site face is blue, and adjacent faces are green opposite to green?
	(1) Red	(2) Blue
	(3) White	(4) Yellow
48.	LCM of 12 and 18 is:	
	(1) 72	(2) 36
	(3) 24	(4) 18
49.	Aman walks 10 m North, then turns r walks 10 m. In which direction is he no	ight and walks 5 m, then turns right again an w from the starting point?
	(1) East	(2) West
	(3) North	(4) South
50.	If South-East becomes North, what will	North-East become ?
	(1) East	(2) West
	(3) South	(4) South-West
51.	Which letter does not change in mirror	image?
	(1) P	(2) B
	(3) H	(4) R

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52.	A can do a piece of work in 10 days complete it together?	s, B in 15 days. In how many days will th	ey
	(1) 6	(2) 5	
	(3) 8	(4) 12	
53.	A train 120 meters long takes 10 second direction. Find the speed of the train:	ds to cross a man walking at 6 km/h in oppos	ite
	(1) 48 km/h	(2) 54 km/h	
	(3) 60 km/h	(4) 66 km/h	
54.	Clock: Time:: Thermometer:?		
	(1) Mercury	(2) Heat	
	(3) Temperature	(4) Degree	
55.	Pointing to a boy, Maya said, "He is the boy to Maya?	e son of my grandfather's only son." Who is t	he
	(1) Brother	(2) Uncle	
	(3) Cousin	(4) Nephew	
56.	Data collected from a published source i	is called:	
	(1) Primary data	(2) Secondary data	
	(3) Raw data	(4) Derived data	
57.	Qualitative data refers to:		
	(1) Numerical values	(2) Categorical variables	
	(3) Frequency distributions	(4) Graphs	
58.	Which of the following is an example of	f continuous data?	
	(1) Number of books	(2) Temperature	
	(3) Roll number	(4) Gender	
59.	Histogram is used to represent:		
	(1) Discrete data	(2) Qualitative data	
	(3) Continuous data	(4) Time-series data	
60.	Frequency polygon is formed by:		
	(1) Using bar graph	(2) Joining midpoints of class intervals	
	(3) Dividing bars	(4) Connecting pie segments	

6 4	Which average is affected most by extre	me v	values?	
61.		(2)	1,10	
	(1) Median (3) Mean	(4)	None of them	
		2 O i	c ·	
62.	The mode of the series: 5, 6, 6, 7, 8, 8, 8	(2)	7	
	(1) 6	(4)		
	(3) 8	(4)	7	
63.	The median of the series: 3, 7, 9, 10, 12	is:		
	(1) 7	(2)	9	
	(3) 10	(4)	8	
64.	Geometric Mean of 2 and 8 is:			
	(1) 5	(2)	6	
	(3) 4	(4)	10	
65.	5. If Arithmetic Mean = 50 and Harmonic Mean = 30, then Geometric Mean is			
	(1) 38.7		40	
	(3) 44	(4)		
66.	If all values in a dataset are same, then s	tand	ard deviation is:	
	(1) Zero		One	
	(3) Infinite	(4)	Mean	
67.	The simplest measure of dispersion is:			
	(1) Standard Deviation	(2)	Variance	
	(3) Range		Mean Deviation	
68.	The formula for variance is:			
	$\sum (x-\bar{x})$		$\sum (x-\bar{x})^2$	
	(1) $\frac{\sum (x - \bar{x})}{n}$ $\sum (x - \bar{x})^2$	(2)	$\frac{\sum (x-\bar{x})^2}{n}$ $\frac{\sum (x-\bar{x})^2}{n+1}$	
	$(3) \frac{\sum (x-\bar{x})^2}{x^2}$		$\sum (x-\bar{x})^2$	
	n^2	(4)	n+1	
69.	Standard deviation is always:			
	(1) Negative	(2)	Zero	
	(3) Positive or zero		Undefined	
		1.	o ilidorimo d	

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P. T. O.

70.	Which relation is always true?				
	(1) $A.M. < G.M.$	(2) $H.M. > A.M. > G.M.$			
	(3) $G.M. > A.M.$	(4) $A.M. > G.M. > H.M.$			
71.	If $A.M. = G.M.$, then:				
	(1) All values are same	(2) All values are different			
	(3) Values are zero	(4) Data is skewed			
72.	Pie charts use angles summing to:				
	(1) 360°	(2) 100°			
	(3) 180°	(4) 270°			
73.	Which measure best represents skewed	l data ?			
	(1) Mean	(2) Mode			
	(3) Median	(4) Range			
74.	If mean is greater than median, the distribution is:				
	(1) Symmetrical	(2) Normal			
	(3) Negatively skewed	(4) Positively skewed			
75.	Which of the following best describes grouped data?				
	(1) Raw data	(2) Data organized in class intervals			
	(3) Unclassified data	(4) Tabulated numerical facts			
76.	Primary data is collected through:				
	(1) Newspapers	(2) Journals			
	(3) Direct observation or survey	(4) Text books			
77.	Geometric mean is applicable only whe	en all values are			
	(1) Positive	(2) Integer			
	(3) Equal	(4) Less than 100			
78.	For the data: 10, 20, 30, 40, 50, the Ar	ithmetic Mean is:			
	(1) 25	(2) 30			
Tre	(3) 35	(4) 40			
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79.	The unit of variance is: (1) Same as mean (3) No unit	(2) (4)	Square of unit of observation Reciprocal of standard deviation
80.	Cumulative frequency §	graph is also known as	S:
	(1) Histogram	(2)	Bar Grapii
	(3) Pie chart	(4)	Ogive
81.	The number of permuta	tions of 5 distinct obj	ects taken 3 at a time is:
	(1) 60	(2)	10
	(3) 20	(4)	15
82.	Number of ways to arra	inge the letters in the	word "STATISTICS" is:
UL .	(1) 50400	(2)	5040
	(3) 10080	그리고 그는 눈이에 오랫 뿐 뭐니? 그 그는 그렇게 있다.	3628800
83.	The number of combina	ations of 7 items taker	3 at a time is:
	(1) 35	(2)	이번 그리지 않는데 하는 것이 하는데 하는데 하는데 되는데 하는데 되는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하
	(3) 21	(4)	14
84.	How many 3-digit num	bers can be formed us	sing digits 1 to 5 without repetition?
	(1) 20		125
	(3) 100	(4)	60
85.	In how many ways can	3 boys and 2 girls be	selected from 5 boys and 4 girls?
	(1) 20	(2)	30
	(3) 40	(4)	10
86.	The probability of an im	possible event is:	
	(1) 1		
	(3) Between 0 and 1		Not defined
87.	A die is thrown once. The	he probability of getti	ing an even number is:
	(1) 1/2		1/3
	(3) 1/6		2/3

88.	The total number of outcomes when	two coins are tossed is:
	(1) 4	(2) 3
	(3) 2	(4) 6
89.	If $P(A) 0.6$ and $P(B) = 0.3$, then max	ximum value of $P(A \cap B)$ is:
	(1) 0.9	(2) 0.3
	(3) 0.6	(4) 1
90.	If two events cannot happen together	er, they are:
	(1) Independent	(2) Complementary
	(3) Mutually exclusive	(4) Equally likely
91.	If A and B are independent, then P	$(A \cap B) =$
	(1) $P(A) + P(B)$	(2) P(A) - P(B)
	$(3) P(A) \times P(B)$	(4) None
92. If A and B are mutually exclusive, then $P(A \cap B) =$		hen $P(A \cap B) =$
	(1) 1	(2) 0
	(3) P(A)	(4) P(B)
93. In axiomatic probability, the value of any probability lies between:		of any probability lies between:
	(1) 0 and ∞	(2) -1 and 1
	(3) 0 and 1	(4) -∞ and +∞
94.	If P(A B) is defined, then:	
	(1) $P(B) = 0$	$(2) P(B) \neq 0$
	(3) $P(A \cup B) = 0$	(4) A and B are mutually exclusive
95.	If A and B are independent, then P(A	AlB) =
	(1) P(A)	(2) P(B)
	$(3) P(A \cap B)$	(4) P(B A)
96.	$P(A \cup B) = P(A) + P(B) - ?$	
	(1) P(B)	$(2) P(A \cap B)$
	$(3) P(A \cup B)$	(4) P(AlB)

97.	97. In Bernoulli distribution, the variance is:			
	(1) p	(2) q		
	(3) pq	(4) p/q		
98.	The binomial distribution has paramet	ers:		
	(1) n and p	(2) μ and σ		
	(3) Mean and variance	(4) n and q		
99.	Which of the following is <i>not</i> a property of binomial distribution?			
	(1) Fixed number of trials	(2) Independent trials		
	(3) Constant probability of success	(4) Continuous outcomes		
100.	If $p = 0.5$ and $n = 4$, then $P(X = 2)$ in b	pinomial distribution is:		
	(1) 3/8	(2) 6/16		
	(3) 1/4	(4) 5/16		

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UG-4Yr.EE-June, 2025

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Time : 11/4 Hours Roll No. (in figures)	Max. Marks : 100 (in words)	Sr. No10078 Total Questions : 100
Name		
Father's Name		
Date of Examination		
(Signature of the Candidate)		(Signature of the Invigilator)

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SEAT

	If $A.M. = G.M.$, then:		
•	(1) All values are same	(2) All values are different	
	(3) Values are zero	(4) Data is skewed	
2.	Pie charts use angles summing to:		
	(1) 360°	(2) 100°	
	(3) 180°	(4) 270°	
3.	Which measure best represents skew	ed data ?	
	(1) Mean	(2) Mode	
	(3) Median	(4) Range	
4.	If mean is greater than median, the di	istribution is :	
	(1) Symmetrical	(2) Normal	
	(3) Negatively skewed	(4) Positively skewed	
5.	Which of the following best describes grouped data?		
	(1) Raw data	(2) Data organized in class intervals	
	(3) Unclassified data	(4) Tabulated numerical facts	
6.	Primary data is collected through:		
	(1) Newspapers	(2) Journals	
	(3) Direct observation or survey	(4) Text books	
7.	Geometric mean is applicable only when all values are :		
	(1) Positive	(2) Integer	
	(3) Equal	(4) Less than 100	
8.	For the data: 10, 20, 30, 40, 50, the	Arithmetic Mean is :	
	(1) 25	(2) 30	
	(3) 35	(4) 40	
9.	The unit of variance is:		
	(1) Same as mean	(2) Square of unit of observation	
	(3) No unit	(4) Reciprocal of standard deviation	
UG-4	YrEE-June, 2025/(B. ScStatistics)((SET-Y)/(B) P. T.	

10.	Cumulative frequency graph is also know	
	(1) Histogram	(2) Bar Graph
	(3) Pie chart	(4) Ogive
11.	Which letter does <i>not</i> change in mirror in	mage?
	(1) P	(2) B
	(3) H	(4) R
12.	A can do a piece of work in 10 days complete it together?	, B in 15 days. In how many days will they
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	(3) Frequency distributions	(2) Categorical variables(4) Graphs
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	(1) Number of books	(2) Temperature
	(3) Roll number	(4) Gandon
UG-4	YrEE-June, 2025/(B. ScStatistics)(SI	ET-V//R)
		~ · //(D)

19	9. Histogram is used to represent :	
	(1) Discrete data	(2) Qualitative data
	(3) Continuous data	(4) Time-series data
20	Frequency polygon is formed by:	
	(1) Using bar graph	(2) Joining midpoints of class intervals
	(3) Dividing bars	(4) Connecting pie segments
21.	Which function is <i>not</i> differentiable at	x = 0?
	(1) x	$(2) x^2$
	$(3) \sin x$	$(4) x^3$
22.	Discontinuity occurs when:	The second experience of the second of the s
	(1) Left and right limits are equal	(2) f (a) is not defined
	(3) Left and right limits are not equal	(4) Function is constant
23.	If a function is differentiable at $x = a$, it	is also:
	(1) Discontinuous	(2) Continuous
	(3) Constant	(4) None
24.	If $f(x) = x $, then $f(x)$ is:	
	(1) Differentiable everywhere	
	(2) Not continuous	
	(3) Continuous but not differentiable at .	x = 0
	(4) Discontinuous at $x = 0$	
25.	The derivative of a^x is:	
	(1) $a^x \ln a$	(2) <i>ln a</i>
	$(3) a \ln x$	$(4) x^a$

4

 $(2) \ \frac{2}{x}$

(3) x ln x

(4) ln x

27. Mean Value Theorem is applicable when:

- (1) Function is discontinuous
- (2) Function is differentiable only
- (3) Function is continuous on [a, b] and differentiable on (a, b)
- (4) Function is constant

28. Maximum/minimum value of a function occurs where:

(1) First derivative is zero

(2) First derivative is one

(3) Second derivative is zero

(4) Function is linear

29. The integral of e^x is:

(1) e

(2) $e^x + c$

(3) x

(4) ln x

30. General solution of $\frac{dy}{dx} = ky$ is:

(1) y = kx

 $(2) y = ce^{kx}$

(3) $y = \log x$

 $(4) \ y = k^x$

31. The square of imaginary number 'i' is:

(1) 0

(2) 1

(3) -1

(4) i

32. Conjugate of 3 + 4i is:

(1) -3 - 4i

(2) 3-4i

(3) -3 + 4i

(4) 3 + 4i

33. Modulus of z = 6 - 8i:

(1) 10

(2) 14

(3) $\sqrt{10}$

(4) 2

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34.	Product of a complex number and its co	onjug	ate is:
	(1) Imaginary		Zero
	(3) Real and positive	(4)	Undefined
35.	The value of $(1+i)^2$ is:		
	(1) 1 + 2i	(2)	0
	(3) 2	(4)	2 <i>i</i>
36.	The transpose of matrix A is obtained b	y:	
	(1) Multiplying A by scalar	(2)	Reversing rows
	(3) Interchanging rows and columns	(4)	Taking inverse
37.	In binomial expansion, the number of te	erms i	in $(x+y)^n$ is:
	(1) n	(2)	n + 1
	(3) 2n	(4)	Infinite
38.	Middle term in the expansion of $(x + y)$	¹⁰ is:	
	(1) 5th	(2)	6th
	(3) 7th	(4)	10th
39.	Coefficient of x^3 in $(1+x)^5$ is:		
	(1) 5	(2)	15
	(3) 20	(4)	10
40.	A matrix with only one row is called:		
	(1) Column matrix	(2)	Scalar matrix
	(3) Row matrix	(4)	Square matrix
41.	If A and B are independent, then P (A \cap	B) =	is z Taedis •
	(1) $P(A) + P(B)$	(2)	P(A) - P(B)
	$(3) P(A) \times P(B)$	(4)	None
42.	If A and B are mutually exclusive, then	P(A	∩ B) =
	(1) 1	(2)	0
	(3) P(A)	(4)	P(B)

		1 1 114 Landatuman
43.	In axiomatic probability, the value of any	
	(1) 0 and ∞	(2) -1 and 1
	(3) 0 and 1	(4) -∞ and +∞
44.	If P(A B) is defined, then:	
	(1) $P(B) = 0$	(2) $P(B) \neq 0$
	$(3) P(A \cup B) = 0$	(4) A and B are mutually exclusive
45.	If A and B are independent, then P(A B)	
	(1) P(A)	(2) P(B)
	$(3) P(A \cap B)$	(4) P(BIA)
46.	$P(A \cup B) = P(A) + P(B) - ?$	
	(1) P(B)	$(2) P(A \cap B)$
	$(3) P(A \cup B)$	(4) P(AIB)
47.	In Bernoulli distribution, the variance is	:
	(1) p	(2) q
	(3) pq	(4) p/q
48.	The binomial distribution has parameter	rs:
	(1) n and p	(2) μ and σ
	(3) Mean and variance	(4) n and q
49.	Which of the following is <i>not</i> a property	of binomial distribution?
	(1) Fixed number of trials	(2) Independent trials
	(3) Constant probability of success	(4) Continuous outcomes
50.	If $p = 0.5$ and $n = 4$, then $P(X = 2)$ in bit	nomial distribution is
	(1) 3/8	(2) 6/16
	(3) 1/4	(4) 5/16
	(3) 114	(4) 3/10
51.	Which average is affected most by extre	eme values?
	(1) Median	(2) Mode
	(3) Mean	(4) None of them

The mode of the series: 5, 6, 6, 7, 8, 8, 8, 9 is:

(1) 6

(2) 7

(3) 8

(4) 9

The median of the series: 3, 7, 9, 10, 12 is:

(1) 7

(2) 9

(3) 10

(4) 8

Geometric Mean of 2 and 8 is: 54.

(1) 5

(2) 6

(3) 4

(4) 10

If Arithmetic Mean = 50 and Harmonic Mean = 30, then Geometric Mean is:

(1) 38.7

(2) 40

(3) - 44

(4) 45

If all values in a dataset are same, then standard deviation is:

(1) Zero

(2) One

(3) Infinite

(4) Mean

The simplest measure of dispersion is:

(1) Standard Deviation

(2) Variance

(3) Range

(4) Mean Deviation

58. The formula for variance is:

 $(1) \ \frac{\sum (x-\bar{x})}{n}$

(3) $\frac{\sum (x-\bar{x})^2}{n^2}$

(2) $\frac{\sum (x - \bar{x})^2}{n}$ (4) $\frac{\sum (x - \bar{x})^2}{n+1}$

Standard deviation is always: 59.

(1) Negative

(2) Zero

(3) Positive or zero

(4) Undefined

Which relation is always true? 60.

(1) A.M. < G.M.

(2) H.M. > A.M. > G.M.

(3) G.M. > A.M.

(4) A.M. > G.M. > H.M.

		1 and 2 at a time is:
61.	The number of permutations of	f 5 distinct objects taken 3 at a time is:
	(1) 60	(2) 10
	(3) 20	(4) 15
62.	Number of ways to arrange the	e letters in the word "STATISTICS" is:
· .	(1) 50400	(2) 5040
	(3) 10080	(4) 3628800
63.	The number of combinations of	of 7 items taken 3 at a time is:
•••	(1) 35	(2) 42
	(3) 21	(4) 14
64.	How many 3-digit numbers ca	n be formed using digits 1 to 5 without repetition?
	(1) 20	(2) 125
	(3) 100	(4) 60
65.	In how many ways can 3 boys	and 2 girls be selected from 5 boys and 4 girls?
	(1) 20	(2) 30
	(3) 40	(4) 10
66.	The probability of an impossib	ole event is:
	(1) 1	(2) 0
	(3) Between 0 and 1	(4) Not defined
67.	A die is thrown once. The prol	bability of getting an even number is:
	(1) 1/2	(2) 1/3
	(3) 1/6	(4) 2/3
68.	The total number of outcomes	when two coins are tossed is:
	(1) 4	(2) 3
	(3) 2	(4) 6
69.	If $P(A) 0.6$ and $P(B) = 0.3$, the	on maximum value of $P(A \cap B)$ is:
	(1) 0.9	(2) 0.3
	(3) 0.6	(4) 1
		물리 그는 그리고 있는데 그리고 하는 그를 그녀를 걸으면 하는데 하는데 그는 것이 없는데 그리고 있다. 이 그리고 있는데 그리고 하는데 하나 하나 하나 하나 하나 하나 하나 하는데 하나 하는데 하나 하나 하나 하나 하나 하는데 하나

. If two events cannot happen	together, they are:
(1) Independent	(2) Complementary
(3) Mutually exclusive	(4) Equally likely
. If ₹1,000 amounts to ₹1,210	in 2 years at compound interest, what is the rate?
(1) 10%	(2) 11%
(3) 5%	(4) 18%
What will be next number in	n the series 3, 6, 18, 72 ?
(1) 144	(2) 216
(3) 360	(4) 432
If $CAT = 24$ and $DOG = 26$,	then what is the code for RAT?
(1) 35	(2) 36
(3) 38	(4) 40
In a certain code, 'FISH' is w	ritten as 'HUKV'. How is 'BIRD' written?
(1) DJTF	(2) EKSG
(3) DKTF	(4) EJSF
	which the almost actually a transcript to the $2-4\div 2$?
(1) 10	(2) 9
(3) 11	(4) 8
A sum of ₹5,000 is invested 3 years?	at 10% per annum simle interest. What is the interest after
(1) ₹1,500	(2) ₹1,000
(3) ₹2,000	(4) ₹1,200
	the opposite face is blue, and adjacent faces are green, at color is opposite to green?
(1) Red	(2) Blue
(3) White	(4) Yellow
	(3) Mutually exclusive If ₹1,000 amounts to ₹1,210 (1) 10% (3) 5% What will be next number in (1) 144 (3) 360 If CAT = 24 and DOG = 26, (1) 35 (3) 38 In a certain code, 'FISH' is w (1) DJTF (3) DKTF What is the value of 5 + 3 × 2 (1) 10 (3) 11 A sum of ₹5,000 is invested a years? (1) ₹1,500 (3) ₹2,000 If one face of a cube is red, yellow, white, and black. What (1) Red

and

78.	LCM of 12 and 18 is:			
	(1) 72	(2)	36	
	(3) 24	(4)	18	
79.	Aman walks 10 m North, then turns right and walks 5 m, then turns right again walks 10 m. In which direction is he now from the starting point?			
	(1) East		West	
	(3) North	(4)	South	
80.	If South-East becomes	North, what will North	h-East become?	
	(1) East		West	
	(3) South	(4)	South-West	
81.	$\lim_{x \to 0} \frac{\sin x}{x} $ is equal to :	i general de la proposición dela proposición de la proposición de la proposición dela proposición de la proposición del proposición de la	waawada = 2000 baa	
	(1) 1	(2)	0	
	(3) ∞	(4)	Does not exist	
82.	Which law holds for limits?			
	(1) Limit of product = product of limits (2) Limit of sum = difference of limits			
	(3) Limit of quotient =	product of limits (4)	Limit of constant = 0	care of mines
83.	if $\lim_{x\to a} f(x)$ exists, then	f(x) must be:		
	(1) Continuous at $x = a$	a		
	(2) Defined at $x = a$			
	(3) Both left and right	limits exist and are ed	qual	
	(4) Differentiable			
84.	Derivative of x^3 is:			
	(1) 3x	(2)	$3x^2$	
	(3) x^2		$3x^3$	
85.	If $f(x) = \sin x$, them $f'(x)$		and the second of the second o	
	$(1) \cos x$	(2)		
	(3) $\sin x$		$-\cos x$	
TIC 4	V	(4)	$-\sin x$	
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		등으로 이번째 작사를 잃었다면 보이지 않다.		

86.	Derivative of a constant is:
	(1) 0
	(3) Undefined
87.	The product rule of derivatives is:
	(1) f.g'
	(3) f.g'
88.	Derivative of $\tan x$ is:
	$(1) \sec^2 x$
	(3) $\sin x$
89.	If $y = x^2 \cos x$, them the derivative is:
	$(1) 2x \cos x - x^2 \sin x$

(2) 1	
(4) Constant	
(0) (1 . (.)	
(2) f'g + fg'	
(4) $f + g$	
$(2) \cos^2 x$	
(4) $\sec x$	
(1) See x	
$(2) x^2 \sin x$	
$(4) 2x \sin x$	
1	
$(2) \ \frac{1}{x}$	
λ r	
$(4) e^x$	

91. Which of the following is a null set?

(1) {0}

 $(3) x \cos x$

(1) 1

(3) log x

90. The derivative of $\log x$ is:

(2) $\{x: x^2 = -1\}$

(3) $\{x: x > 2\}$

(4) {2, 4, 6}

92. The power set of a set with 3 elements contains:

(1) 6 subsets

(2) 4 subsets

(3) 9 subsets

(4) 8 subsets

93. Common ratio of GP: 3, 6, 12, 24 is:

(1) 2

(2) 3

(3) 1

(4) 6

94. The composition of functions $f: A \to B$ and $g: B \to C$ is defined as:

(1) fog

(2) g o f

(3) f + g

(4) g + f

- **95.** Sum of first 5 terms of GP: 1, 2, 4, 8, is:
 - (1) 31

(2) 30

(3) 32

(4) 15

96. The value of sin (90°) is :

(1) -1

(2) 0

(3) 1

(4) Undefined

97. The principal value of $\sin^{-1}(1)$ is:

(1) π

(2) $\pi/4$

(3) 0

(4) $\pi/2$

98. Thenth term of AP is given by:

(1) a - (n-1) d

(2) a + (n-1) d

(3) a (n - d)

(4) nd

99. Which identity is *correct*?

(1) $\sin^2 x + \cos^2 x = 1$

 $(2) \tan^2 x + 1 = \sec x$

(3) $\sec x \cdot \cot x = 1$

 $(4) \sin x = \cot x$

100. If $\tan A = \frac{3}{4}$, then $\sec A$ is :

(1) 5/4

(2) 4/5

(3) 5/3

(4) 5/6

Total No. of Printed Pages: 13

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C

UG-4Yr.EE-June, 2025

SUBJECT: B.Sc.-Statistics

		31. 140
Time: 11/4 Hours	Max. Marks : 100	Total Questions : 100
Roll No. (in figures)	(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 booklet 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 & D code shall be got uploaded on the University Website immediately 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 booklet itself. Answers *must not* be ticked in the question booklet.
- 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 booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.

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1.	If $\langle 1,000 \rangle$ amounts to $\langle 1,210 \rangle$ in 2 y	years at compound interest, what is the rate?
	(1) 10%	(2) 11%
	(3) 5%	(4) 18%
2.	What will be next number in the s	series 3, 6, 18, 72 ?
	(1) 144	(2) 216
	(3) 360	(4) 432
3.	If $CAT = 24$ and $DOG = 26$, then	what is the code for RAT?
	(1) 35	(2) 36
	(3) 38	(4) 40
4.	In a certain code, 'FISH' is written	as 'HUKV'. How is 'BIRD' written?
	(1) DJTF	(2) EKSG
	(3) DKTF	(4) EJSF
5.	What is the value of $5 + 3 \times 2 - 4$	÷ 2 ?
	(1) 10	(2) 9
	(3) 11	(4) 8
6.	A sum of ₹5,000 is invested at 10°3 years?	% per annum simle interest. What is the interest after
	(1) ₹1,500	(2) ₹1,000
	(3) ₹2,000	(4) ₹1,200
7.	If one face of a cube is red, the yellow, white, and black. What col	opposite face is blue, and adjacent faces are green, or is opposite to green?
	(1) Red	(2) Blue
	(3) White	(4) Yellow
8.	LCM of 12 and 18 is:	
	(1) 72	(2) 36

9.	9. Aman walks 10 m North, then turns right and walks 5 m, then turns right again a walks 10 m. In which direction is he now from the starting point?		
	(1) East	(2)	West
	(3) North	(4)	South
10.	If South-East becomes North, what will	Nort	h-East become ?
	(1) East		West
	(3) South	(4)	South-West
11.	$\lim_{x \to 0} \frac{\sin x}{x}$ is equal to:		
	(1) 1	(2)	0
	(3) ∞	(4)	Does not exist
12. Which law holds for limits?			
	(1) Limit of product = product of limits		
	(3) Limit of quotient = product of limits	(4)	Limit of constant = 0
13.	if $\lim_{x\to a} f(x)$ exists, them $f(x)$ must be:		
	(1) Continuous at $x = a$		
	(2) Defined at $x = a$		
(3) Both left and right limits exist and are equal			ual
	(4) Differentiable		
14.	Derivative of x^3 is:		
	(1) 3x	(2)	$3x^2$
	(3) x^2		$3x^3$
15.	If $f(x) = \sin x$, them $f'(x) =$		
	$(1) \cos x$	(2)	-cos x
	(3) $\sin x$	(4)	$-\sin x$
16.	Derivative of a constant is:		
	(1) 0	(2)	1
	(3) Undefined	(4)	Constant

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17.	The product rule of derivatives is:	
	(1) f.g'	(2) fg + fg'
	(3) f.g'	(4) f + g
18.	Derivative of $\tan x$ is:	
	(1) $\sec^2 x$	$(2) \cos^2 x$
	(3) $\sin x$	(4) $\sec x$
19.	If $y = x^2 \cos x$, them the derivative is:	
	$(1) 2x \cos x - x^2 \sin x$	$(2) x^2 \sin x$
	(3) $x \cos x$	$(4) 2x \sin x$
20.	The derivative of $\log x$ is:	
	(1) 1	$(2) \frac{1}{x}$
	(3) $\log x$	$(4) e^x$
	(3) 108 x	(4) &
21.	Which of the following is a null set?	
	(1) {0}	$(2) \{x: x^2 = -1\}$
	(3) $\{x: x > 2\}$	(4) {2, 4, 6}
22.	The power set of a set with 3 elements of	contains:
	(1) 6 subsets	(2) 4 subsets
	(3) 9 subsets	(4) 8 subsets
23.	Common ratio of GP: 3, 6, 12, 24	is :
	(1) 2	(2) 3
	(3) 1	(4) 6
24.	The composition of functions $f: A \rightarrow B$	and $g: B \to C$ is defined as:
	(1) fog	(2) g o f
	(3) $f + g$	(4) g + f
25.	Sum of first 5 terms of GP: 1, 2, 4, 8,	is :
	(1) 31	(2) 30
	(3) 32	(4) 15

(1) P(B) = 0

(3) $P(A \cup B) = 0$

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26.	The value of sin (90°) is:		
	(1) -1	(2) 0	
	(3) 1	(4) Undefined	
27.	The principal value of sin ⁻¹	(1) is:	
	$(1) \pi$	(2) $\pi/4$	
	(3) 0	(4) $\pi/2$	
28.	Thenth term of AP is given b	y:	
	(1) a - (n-1) d	(2) $a + (n-1) d$	
	(3) $a(n-d)$	(4) nd	
29.	Which identity is <i>correct</i> ?		
	$(1) \sin^2 x + \cos^2 x = 1$	$(2) \tan^2 x + 1 = \sec x$	
	(3) $\sec x \cdot \cot x = 1$	$(4) \sin x = \cot x$	
30.	If $\tan A = \frac{3}{4}$, then $\sec A$ is:		
	(1) 5/4	(2) 4/5	
	(3) 5/3	(4) 5/6	
31.	If A and B are independent, t	hen $P(A \cap B) =$	
	(1) $P(A) + P(B)$	(2) P(A) - P(B)	
	$(3) P(A) \times P(B)$	(4) None	
32. If A and B are mutually exclusive, then $P(A \cap B)$		sive, then $P(A \cap B) =$	
	(1) 1	(2) 0	
	(3) P(A)	(4) P(B)	
33.	In axiomatic probability, the value of any probability lies between:		
	(1) 0 and ∞	(2) -1 and 1	
	(3) 0 and 1	$(4) -\infty$ and $+\infty$	
34.	If P(AlB) is defined, then:		

(2) $P(B) \neq 0$

(4) A and B are mutually exclusive

35.	If A and B are independent, then P(AlB)) =	
	(1) P(A)		P(B)
	$(3) P(A \cap B)$	(4)	P(BIA)
36.	$P(A \cup B) = P(A) + P(B) - ?$		
	(1) P(B)	(2)	$P(A \cap B)$
	$(3) P(A \cup B)$	(4)	P(AIB)
37.	In Bernoulli distribution, the variance is		n Turke Sir production w
	(1) p	(2)	q
	(3) pq	(4)	p/q
38.	The binomial distribution has parameter	s:	norziocai, io care de
	(1) n and p		μ and σ
	(3) Mean and variance	(4)	n and q
39.	Which of the following is <i>not</i> a property	of b	inomial distribution ?
	(1) Fixed number of trials		Independent trials
	(3) Constant probability of success		Continuous outcomes
40.	If $p = 0.5$ and $n = 4$, then $P(X = 2)$ in bir	nomi	al distribution is :
	(1) 3/8		6/16
	(3) 1/4		5/16
41.	Which average is affected most by extre	me v	values?
	(1) Median		Mode
	(3) Mean		None of them
42.	The mode of the series: 5, 6, 6, 7, 8, 8, 8	8, 9 i	s:
	(1) 6	(2)	
	(3) 8	(4)	
43.	The median of the series: 3, 7, 9, 10, 12	is:	
	(1) 7	(2)	9
	(3) 10	(4)	

44.	Geometric Mean of 2 and 8 is:	
	(1) 5	(2) 6
	(3) 4	(4) 10
45.	If Arithmetic Mean = 50 and Harmon	nic Mean = 30, then Geometric Mean is
	(1) 38.7	(2) 40
	(3) 44	(4) 45
46.	If all values in a dataset are same, the	en standard deviation is:
	(1) Zero	(2) One
	(3) Infinite	(4) Mean
47.	The simplest measure of dispersion is	
	(1) Standard Deviation	(2) Variance
	(3) Range	(4) Mean Deviation
48.	The formula for variance is:	
	$\sum (x-\bar{x})$	$\sum (x-\bar{x})^2$
	$(1) = \frac{n}{n}$	(2) ${n}$
	$\sum (x-\bar{x})^2$	$\sum_{x} (x - \overline{x})^2$
	(1) $\frac{\sum (x-\bar{x})}{n}$ (3) $\frac{\sum (x-\bar{x})^2}{n^2}$	(2) $\frac{\sum (x - \bar{x})^2}{n}$ (4) $\frac{\sum (x - \bar{x})^2}{n+1}$
49.	Standard deviation is always:	
	(1) Negative	(2) Zero
	(3) Positive or zero	(4) Undefined
50.	Which relation is always true?	
	(1) $A.M. < G.M.$	(2) $H.M. > A.M. > G.M.$
	(3) $G.M. > A.M.$	(4) $A.M. > G.M. > H.M.$
51.	Which function is <i>not</i> differentiable a	at $x = 0$?
	(1) lxl	(2) x^2
	(3) $\sin x$	(4) x^3
52.	Discontinuity occurs when:	
	(1) Left and right limits are equal	(2) f (a) is not defined

(4) Function is constant

(3) Left and right limits are not equal

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53. If a function is differentiable at $x = a$, it	is also	•
--	---------	---

(1) Discontinuous

(2) Continuous

(3) Constant

(4) None

54. If
$$f(x) = |x|$$
, then $f(x)$ is:

- (1) Differentiable everywhere
- (2) Not continuous
- (3) Continuous but not differentiable at x = 0
- (4) Discontinuous at x = 0

55. The derivative of a^x is:

(1) $a^x \ln a$

(2) ln a

(3) a ln x

 $(4) x^a$

56. The derivative of
$$ln(x^2)$$
 is:

(1) $\frac{1}{x^2}$

(2) $\frac{2}{x}$

(3) x ln x

(4) ln x

57. Mean Value Theorem is applicable when:

- (1) Function is discontinuous
- (2) Function is differentiable only
- (3) Function is continuous on [a, b] and differentiable on (a, b)
- (4) Function is constant

58. Maximum/minimum value of a function occurs where:

- (1) First derivative is zero
- (2) First derivative is one
- (3) Second derivative is zero
- (4) Function is linear

59. The integral of e^x is:

(1) e

(2) $e^x + c$

(3) x

(4) ln x

60. General solution of
$$\frac{dy}{dx} = ky$$
 is :

(1) y = kx

 $(2) \ y = ce^{kx}$

 $(3) y = \log x$

 $(4) \quad y = k^x$

61	If $A.M. = G.M.$, then:		
01.	(1) All values are same	(2) All values are different	
	(3) Values are zero	(4) Data is skewed	
62.	Pie charts use angles summing to:		
	(1) 360°	(2) 100°	
	(3) 180°	(4) 270°	
63.	Which measure best represents skewed	data?	
	(1) Mean	(2) Mode	
	(3) Median	(4) Range	
64.	If mean is greater than median, the distr	ibution is:	
	(1) Symmetrical	(2) Normal	
	(3) Negatively skewed	(4) Positively skewed	
65.	Which of the following best describes grouped data?		
	(1) Raw data	(2) Data organized in class intervals	
	(3) Unclassified data	(4) Tabulated numerical facts	
66.	Primary data is collected through:		
	(1) Newspapers	(2) Journals	
	(3) Direct observation or survey	(4) Text books	
67.	7. Geometric mean is applicable only when all values are:		
	(1) Positive	(2) Integer	
	(3) Equal	(4) Less than 100	
68. For the data: 10, 20, 30, 40, 50, the Arithmetic Mean is:		chmetic Mean is:	
	(1) 25	(2) 30	
	(3) 35	(4) 40	
69.	The unit of variance is:		
	(1) Same as mean	(2) Square of unit of observation	
	(3) No unit	(4) Reciprocal of standard deviation	
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70.	Cumulative frequency graph is also kno	own as :	
	(1) Histogram	(2) Bar Graph	
	(3) Pie chart	(4) Ogive	
71.	The number of permutations of 5 distinct	ct objects taken 3 at a time is:	
	(1) 60	(2) 10	
	(3) 20	(4) 15	
72.	Number of ways to arrange the letters in the word "STATISTICS" is:		
	(1) 50400	(2) 5040	
	(3) 10080	(4) 3628800	
73.	The number of combinations of 7 items taken 3 at a time is:		
	(1) 35	(2) 42	
	(3) 21	(4) 14	
74.	How many 3-digit numbers can be formed using digits 1 to 5 without repetition?		
	(1) 20	(2) 125	
	(3) 100	(4) 60	
75.	In how many ways can 3 boys and 2 girls be selected from 5 boys and 4 girls?		
	(1) 20	(2) 30	
	(3) 40	(4) 10	
76.	The probability of an impossible event is:		
	(1) 1	(2) 0	
	(3) Between 0 and 1	(4) Not defined	
77.	A die is thrown once. The probability of getting an even number is:		
	(1) 1/2	(2) 1/3	
	(3) 1/6	(4) 2/3	
78.	The total number of outcomes when two	coins are tossed is:	
	(1) 4	(2) 3	
	(3) 2	(4) 6	

79.	If $P(A)$ 0.6 and $P(B) = 0.3$, then maximum value of $P(A \cap B)$ is					
	(1) 0.9	(2) 0.3				
	(3) 0.6	(4) 1				
80.	If two events cannot happen together, t	hey are:				
	(1) Independent	(2) Complementary				
	(3) Mutually exclusive	(4) Equally likely				
81.	The square of imaginary number i is:					
	(1) 0	(2) 1				
	(3) -1	(4) i				
82.	Conjugate of $3 + 4i$ is:					
	(1) -3 - 4i	(2) $3-4i$				
	(3) -3 + 4i	$(4) \ 3 + 4i$				
83.	Modulus of $z = 6 - 8i$:					
	(1) 10	(2) 14				
	(3) $\sqrt{10}$	(4) 2				
84.	Product of a complex number and its conjugate is:					
	(1) Imaginary	(2) Zero				
	(3) Real and positive	(4) Undefined				
85.	The value of $(1+i)^2$ is:					
	(1) 1 + 2i	(2) 0				
	(3) 2	(4) 2i				
86.	The transpose of matrix A is obtained b	by:				
	(1) Multiplying A by scalar	(2) Reversing rows				
	(3) Interchanging rows and columns	(4) Taking inverse				
87.	In binomial expansion, the number of t	erms in $(x + y)^n$ is:				
	(1) n	(2) $n + 1$				
	(3) 2n	(4) Infinite				

88.	Middle term in the expansion of $(x + y)^{1}$	⁰ is:
	(1) 5th	(2) 6th
	(3) 7th	(4) 10th
89.	Coefficient of x^3 in $(1+x)^5$ is:	
	(1) 5	(2) 15
	(3) 20	(2) 13 (4) 10
90.	A matrix with only one row is called:	
	(1) Column matrix	(2) Scalar matrix
	(3) Row matrix	(4) Square matrix
91.	Which letter does not change in mirror i	mage ?
	(1) P	(2) B
	(3) H	(4) R
92.	A can do a piece of work in 10 days complete it together?	, B in 15 days. In how many days will they
	(1) 6	(2) 5
	(3) 8	(4) 12
93.	A train 120 meters long takes 10 second direction. Find the speed of the train:	ls to cross a man walking at 6 km/h in opposite
	(1) 48 km/h	(2) 54 km/h
	(3) 60 km/h	(4) 66 km/h
94.	Clock: Time:: Thermometer:?	
	(1) Mercury	(2) Heat
	(3) Temperature	(4) Degree
95.	Pointing to a boy, Maya said, "He is the boy to Maya?	son of my grandfather's only son." Who is the
	(1) Brother	(2) Uncle
	(3) Cousin	(4) Nephew

96.	Data collected from a published source	(2) Secondary data
	(1) Primary data	
	(3) Raw data	(4) Derived data
97.	Qualitative data refers to:	
	(1) Numerical values	(2) Categorical variables
	(3) Frequency distributions	(4) Graphs
98.	Which of the following is an example	of continuous data?
	(1) Number of books	(2) Temperature
	(3) Roll number	(4) Gender
99.	Histogram is used to represent:	
	(1) Discrete data	(2) Qualitative data
	(3) Continuous data	(4) Time-series data
00.	Frequency polygon is formed by:	
	(1) Using bar graph	(2) Joining midpoints of class intervals
	(3) Dividing bars	(4) Connecting pie segments

C- No

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

UG-4Yr.EE-June, 2025

SUBJECT: B.Sc.-Statistics

		10080
Time: 11/4 Hours	Max. Marks: 100	Total Questions: 100
Roll No. (in figures)	(in words)	
Name	Date of Birth	
Father's Name	Mother's Name	
Date of Examination		
(Signature of the Condidate)		(Signature of the Invigilator)
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 booklet as well as OMR Answer-Sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfairmeans / 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 & D code shall be got uploaded on the University Website immediately 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 booklet itself. Answers must not be ticked in the question booklet.
- 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 booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.

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1.	The square of imaginary number 'i' is:		
	(1) 0	(2)	1
	(3) –1	(4)	i
2.	Conjugate of $3 + 4i$ is:		
	(1) -3 - 4i	(2)	3-4i
	(3) -3 + 4i		3+4i
3.	Modulus of $z = 6 - 8i$:		
	(1) 10	(2)	14
	(3) $\sqrt{10}$	(4)	
4.	Product of a complex number and its c	onjug	ate is:
	(1) Imaginary		Zero
	(3) Real and positive	(4)	Undefined
5.	The value of $(1+i)^2$ is:		
	(1) $1 + 2i$	(2)	0
	(3) 2	(4)	2i
6.	The transpose of matrix A is obtained by	by:	
	(1) Multiplying A by scalar	(2)	Reversing rows
	(3) Interchanging rows and columns	(4)	Taking inverse
7.	In binomial expansion, the number of t	erms i	in $(x + y)^n$ is:
	(1) n		n + 1
	(3) 2n	(4)	Infinite
8.	Middle term in the expansion of $(x + y)$	¹⁰ is:	
	(1) 5th	(2)	6th
	(3) 7th		10th
9.	Coefficient of x^3 in $(1+x)^5$ is:		
	(1) 5	(2)	15

(3) 20

(2) 15

(4) 10

10.	A matrix with only one row is called:		
	(1) Column matrix	(2)	Scalar matrix
	(3) Row matrix	(4)	Square matrix
11.	If A and B are independent, then P (A \cap \)	B)	
	(1) $P(A) + P(B)$		P(A) - P(B)
	(3) $P(A) \times P(B)$		None .
12.	If A and B are mutually exclusive, then	D(A	O.P.) -
	(1) 1	(2)	
	(3) P(A)		P(B)
10			
13.	In axiomatic probability, the value of an		
	(1) 0 and ∞		-1 and 1
	(3) 0 and 1	(4)) -∞ and +∞
14.	If P(AlB) is defined, then:		
	(1) $P(B) = 0$	(2)	$P(B) \neq 0$
	$(3) P(A \cup B) = 0$	(4)	A and B are mutually exclusive
15.	If A and B are independent, then P(A B)	=	
	(1) P(A)		P(B)
	$(3) P(A \cap B)$		P(BIA)
16.	$P(A \cup B) = P(A) + P(B) - ?$		
	(1) P(B)	(2)	$P(A \cap B)$
	$(3) P(A \cup B)$		P(AIB)
17			
17.	In Bernoulli distribution, the variance is		
	(1) p	(2)	다. 그는 그는 사람들은 모두 사람이 얼마 얼마를 받는다.
	(3) pq	(4)	p/q
18.	The binomial distribution has parameters	s :	
	(1) n and p	(2)	μ and σ
	(3) Mean and variance	(4)	n and q

19.	Which of the following is not a propert		
	(1) Fixed number of trials	(2) Independent trials	
	(3) Constant probability of success	(4) Continuous outcomes	
20.	If $p = 0.5$ and $n = 4$, then $P(X = 2)$ in bi	nomial distribution is :	
	(1) 3/8	(2) 6/16	
	(3) 1/4	(4) 5/16	
21.	If $A.M. = G.M.$, then:		
	(1) All values are same	(2) All values are different	
	(3) Values are zero	(4) Data is skewed	
22	Pie charts use angles summing to:		
ZZ.		(2) 1000	
	(1) 360°	(2) 100°	
	(3) 180°	(4) 270°	
23.	Which measure best represents skewed	data ?	
	(1) Mean	(2) Mode	
	(3) Median	(4) Range	
24.	If mean is greater than median, the distr	ribution is:	
	(1) Symmetrical	(2) Normal	
	(3) Negatively skewed	(4) Positively skewed	
25.	Which of the following best describes g	rouped data?	
	(1) Raw data	(2) Data organized in class intervals	
	(3) Unclassified data	(4) Tabulated numerical facts	
26.	Primary data is collected through:		
	(1) Newspapers	(2) Journals	
	(3) Direct observation or survey	(4) Text books	
27.	Geometric mean is applicable only whe	n all values are :	
	(1) Positive	(2) Integer	
	(3) Equal	(4) Less than 100	
	경기의 사업적 경기 이번 경기에게 내려가서 가고 있는데 다양 없는데 나다는다.		

28.	For the data: 10, 20, 30, 40, 50, the Ar	ithmetic Mean is:
	(1) 25	(2) 30
	(3) 35	(4) 40
29.	The unit of variance is:	
	(1) Same as mean	(2) Square of unit of observation
	(3) No unit	(4) Reciprocal of standard deviation
30.	Cumulative frequency graph is also known	own as:
	(1) Histogram	(2) Bar Graph
	(3) Pie chart	(4) Ogive
31.	Which letter does <i>not</i> change in mirror	image?
	(1) P	(2) B
	(3) H	(4) R
32.	A can do a piece of work in 10 days complete it together?	s, B in 15 days. In how many days will they
	(1) 6	(2) 5
	(3) 8	(4) 12
33.	A train 120 meters long takes 10 second direction. Find the speed of the train:	ds to cross a man walking at 6 km/h in opposite
	(1) 48 km/h	(2) 54 km/h
	(3) 60 km/h	(4) 66 km/h
34.	Clock: Time:: Thermometer:?	
	(1) Mercury	(2) Heat
	(3) Temperature	(4) Degree
35.	Pointing to a boy, Maya said, "He is the boy to Maya?	e son of my grandfather's only son." Who is the
	(1) Brother	(2) Uncle
	(3) Cousin	(4) Nephew
		그는 사람들은 아이들 사람들이 가득 아이들이 가지 않는 아니는 아이들이 되었다. 그렇게 되었는데 그 사람들이 아이들이 되었다. 그는 사람들이 되었다. 그리고 사람들이 되었다. 점점 사람들이 되었다.

	Data collected from a published source		
	(1) Primary data	(2) Secondary data	
	(3) Raw data	(4) Derived data	
37.	Qualitative data refers to:		
	(1) Numerical values	(2) Categorical variables	
	(3) Frequency distributions	(4) Graphs	
38.	Which of the following is an example of	이 가는 맛이 있어요. 이렇게 이 맛있다면 그 얼룩하게 되고 가장했다. 이는 이는 그리는 이에 있는 그림이 어떻게	
	(1) Number of books		
	(3) Roll number	(2) Temperature	
39.	Histogram :	(4) Gender	
٠٠.	Histogram is used to represent: (1) Discrete data		
	(3) Continuous data	(2) Qualitative data	
	(5) Continuous data	(4) Time-series data	
40.	Frequency polygon is formed by:		
	(1) Using bar graph	(2) Joining midpoints of class intervals	3.48
	(3) Dividing bars	(4) Connecting pie segments	
41.	Which function is <i>not</i> differentiable at a	z = 0.2	
	(1) x	(2) x^2	
	(3) $\sin x$	(4) x^3	
42.	Discontinuity	(4) 2	
	Discontinuity occurs when:		
	(1) Left and right limits are equal(3) Left and right limits are not equal	(2) f (a) is not defined	
		(4) Function is constant	
43.	If a function is differentiable at $x = a$, it	is also:	
	(1) Discontinuous	(2) Continuous	
	(3) Constant	(4) None	
	If $f(x) = x $, then $f(x)$ is:		
44.			
44.	(1) Differentiable everywhere		
44.	(1) Differentiable everywhere(2) Not continuous		
44.		$\mathbf{r} = 0$	

45. The derivative of a^x is:

(1) $a^x \ln a$

(2) ln a

(3) $a \ln x$

 $(4) x^{a}$

46. The derivative of $ln(x^2)$ is:

(1) $\frac{1}{x^2}$

(2) $\frac{2}{x}$

 $(3) x \ln x$

(4) ln x

47. Mean Value Theorem is applicable when:

- (1) Function is discontinuous
- (2) Function is differentiable only
- (3) Function is continuous on [a, b] and differentiable on (a, b)
- (4) Function is constant

48. Maximum/minimum value of a function occurs where:

- (1) First derivative is zero
- (2) First derivative is one
- (3) Second derivative is zero
- (4) Function is linear

49. The integral of e^x is:

(1) e

(2) $e^x + c$

(3) x

(4) ln x

50. General solution of $\frac{dy}{dx} = ky$ is:

(1) y = kx

 $(2) \ y = ce^{kx}$

 $(3) y = \log x$

 $(4) \ y = k^x$

51. $\lim_{x \to 0} \frac{\sin x}{x}$ is equal to:

(1) 1

(2) 0

(3) ∞

(4) Does not exist

52. Which law holds for limits?

- (1) Limit of product = product of limits (2) Limit of sum = difference of limits
- (3) Limit of quotient = product of limits (4) Limit of constant = 0

53.	if	lim	f(x))exists,	them	f(x)	must	be	:
-----	----	-----	------	----------	------	------	------	----	---

- (1) Continuous at x = a
- (2) Defined at x = a
- (3) Both left and right limits exist and are equal
- (4) Differentiable

54. Derivative of x^3 is:

(1) 3x

(2) $3x^2$

(3) x^2

(4) $3x^3$

55. If
$$f(x) = \sin x$$
, them $f'(x) =$

 $(1) \cos x$

 $(2) -\cos x$

 $(3) \sin x$

 $(4) -\sin x$

56. Derivative of a constant is:

(1) 0

(2) 1

(3) Undefined

(4) Constant

57. The product rule of derivatives is:

(1) f.g'

(2) f'g + fg'

(3) f.g'

(4) f + g

58. Derivative of $\tan x$ is:

 $(1) \sec^2 x$

(2) $\cos^2 x$

 $(3) \sin x$

(4) $\sec x$

59. If $y = x^2 \cos x$, them the derivative is:

 $(1) 2x \cos x - x^2 \sin x$

 $(2) x^2 \sin x$

 $(3) x \cos x$

(4) $2x \sin x$

60. The derivative of $\log x$ is:

(1) 1

 $(2) \ \frac{1}{x}$

(3) log x

(4) e^x

61.	If ₹1.000 amounts to ₹1.210 in 2	years at compound interest, what is the rate?
	(1) 10%	(2) 11%
	(3) 5%	(4) 18%
62.	What will be next number in the	e series 3, 6, 18, 72 ?
	(1) 144	(2) 216
	(3) 360	(4) 432
63.	If $CAT = 24$ and $DOG = 26$, the	n what is the code for RAT?
	(1) 35	(2) 36
	(3) 38	(4) 40
64.	In a certain code, 'FISH' is writt	en as 'HUKV'. How is 'BIRD' written ?
	(1) DJTF	(2) EKSG
	(3) DKTF	(4) EJSF
65.	What is the value of $5 + 3 \times 2 - 2 = 3 \times 10^{-2}$	4 ÷ 2 ?
	(1) 10	(2) 9
	(3) 11	(4) 8
66.	A sum of ₹5,000 is invested at 3 years?	10% per annum simle interest. What is the interest after
	(1) ₹1,500	(2) ₹1,000
	(3) ₹2,000	(4) ₹1,200
67.	If one face of a cube is red, to yellow, white, and black. What	he opposite face is blue, and adjacent faces are green color is opposite to green?
	(1) Red	(2) Blue
	(3) White	(4) Yellow
68.	LCM of 12 and 18 is:	
	(1) 72	(2) 36
		(4) 18

69.	Aman walks 10 m North, then turn	s right and walks 5 m, then turns right again	n and
	walks 10 m. In which direction is he	(2) West	
	(1) East	(4) South	
	(3) North	(4) 50411	
70.	If South-East becomes North, what w	vill North-East become ?	
	(1) East	(2) West	
	(3) South	(4) South-West	
71.	Which average is affected most by ex	streme values?	
	(1) Median	(2) Mode	1.5
	(3) Mean	(4) None of them	
72.	The mode of the series : 5, 6, 6, 7, 8,	8, 8, 9 is:	
	(1) 6	(2) 7	
	(3) 8	(4) 9	
73.	The median of the series: 3, 7, 9, 10,	12 is:	
	(1) 7	(2) 9	
	(3) 10	(4) 8	
74.	Geometric Mean of 2 and 8 is:		
, 4.	(1) 5	(2) 6	
	(3) 4	(4) 10	
75 .	If Arithmetic Mean = 50 and Harmon	ic Mean = 30, then Geometric Mean is:	
13.	(1) 38.7	(2) 40	
	(3) 44	(4) 45	
	H. H. H. H. W. W. W. 10 & H. 19.		
76.	If all values in a dataset are same, the		
	(1) Zero	(2) One	
	(3) Infinite	(4) Mean	
77.	The simplest measure of dispersion is		
	(1) Standard Deviation	(2) Variance	
	(3) Range	(4) Mean Deviation	

78. The formula for variance is:

$$(1) \ \frac{\sum (x-\bar{x})}{n}$$

$$(2) \quad \frac{\sum (x-\bar{x})^2}{n}$$

(1)
$$\frac{\sum (x-\bar{x})}{n}$$
(3)
$$\frac{\sum (x-\bar{x})^2}{n^2}$$

(2)
$$\frac{\sum (x - \bar{x})^2}{n}$$
(4)
$$\frac{\sum (x - \bar{x})^2}{n+1}$$

79. Standard deviation is always:

(1) Negative

(2) Zero

(3) Positive or zero

(4) Undefined

80. Which relation is always true?

(1) A.M. < G.M.

(2) H.M. > A.M. > G.M.

(3) G.M. > A.M.

(4) A.M. > G.M. > H.M.

81. Which of the following is a null set?

 $(1) \{0\}$

(2) $\{x : x^2 = -1\}$

(3) $\{x: x > 2\}$

(4) {2, 4, 6}

82. The power set of a set with 3 elements contains:

(1) 6 subsets

(2) 4 subsets

(3) 9 subsets

(4) 8 subsets

83. Common ratio of GP: 3, 6, 12, 24 is:

(1) 2

(2) 3

(3) 1

(4) 6

84. The composition of functions $f: A \to B$ and $g: B \to C$ is defined as:

(1) fog

(2) g o f

(3) f + g

(4) g + f

85. Sum of first 5 terms of GP: 1, 2, 4, 8, is:

(1) 31

(2) 30

(3) 32

(4) 15

UG-4Yr.-EE-June, 2025/(B. Sc.-Statistics)(SET-Y)/(D)

(3) 100

UG-4Yr.-EE-June, 2025/(B. Sc.-Statistics)(SET-Y)/(D)

P. T. O.

86	5. The value of sin (90°) is:					
	(1) -1	(2) 0				
	(3) 1	(4) Undefined				
87	. The principal value of sin ⁻¹ (l) is:				
	(1) π	(2) π/4				
	(3) 0	(4) $\pi/2$				
88.	. Thenth term of AP is given by	en la la comparta de la comparta de Visione				
	(1) $a - (n-1) d$	(2) $a + (n-1) d$				
	(3) $a(n-d)$	(4) nd				
89.	Which identity is correct?	our valido e will gottiwil pagotos le fici lest page galego (fil.).				
	$(1) \sin^2 x + \cos^2 x = 1$	$(2) \tan^2 x + 1 = \sec x$				
	(3) $\sec x \cdot \cot x = 1$	$(4) \sin x = \cot x$				
90.	If $\tan A = \frac{3}{4}$, then sec A is:					
	(1) 5/4	(2) 4/5				
	(3) 5/3	(4) 5/6				
91.	The number of permutations of 5 distinct objects taken 3 at a time is:					
	(1) 60	(2) 10				
	(3) 20	(4) 15				
92.	Number of ways to arrange the letters in the word "STATISTICS" is:					
	(1) 50400	(2) 5040				
	(3) 10080	(4) 3628800				
93.	The number of combinations of 7 items taken 3 at a time is:					
	(1) 35	(2) 42				
	(3) 21	(4) 14				
94.	How many 3-digit numbers can	be formed using digits 1 to 5 without repetition?				
	(1) 20	(2) 125				
	(3) 100	(4) 60				

95.	In how many ways can 3 boys	s and 2 girls be selected from 5 boys and 4 girls?		
	(1) 20	(2) 30		
	(3) 40	(4) 10		
96.	The probability of an impossi	ble event is:		
	(1) 1	(2) 0		
	(3) Between 0 and 1	(4) Not defined		
97.	A die is thrown once. The pro	bability of getting an even number is:		
	(1) 1/2	(2) 1/3		
	(3) 1/6	(4) 2/3		
98.	The total number of outcomes when two coins are tossed is:			
	(1) 4	(2) 3		
	(3) 2	(4) 6		
99.	If $P(A)$ 0.6 and $P(B) = 0.3$, then maximum value of $P(A \cap B)$ is:			
	(1) 0.9	(2) 0.3		
	(3) 0.6	(4) 1		
100.	If two events cannot happen together, they are:			
	(1) Independent	(2) Complementary		
	(3) Mutually exclusive	(4) Equally likely		
		그 그리고 그리고 있는데 그리고 하는데 그리고 하는데 일반되었다. 그는 사람들은 그리고 그리고 있는데 그리고 있다면 하는데 회사를 받는데 그리고 있다.		

	ys of bachelor of sele	nce (Statistics) 4-year		
Q. No.	Α	В	С	D
1	2	1	4	3
2	4	1	4	2
3	1	3	2	1
4	2	4	1	3
5	1	2	2	4
6 4	1	3	1	3
7	4	1	3	2
8	2	2	2	2
9	1	2	1	4
10	1	4	2	3
11	3	3	1	3
12	2	1	1	2
13	1	1	3	3
14	3	3	2	2
		1	1	1
15	4		1	2
16	3	2		3
17	2	2	2	
18	2	2	1	1
19	4	3	1	4
20	3	2	2	2
21	1	1	2	1
22	1	3	4	1
23	3	2	1	3
24	2	3	2	4
25	1	1	1	2
26	1	2	1	3
27	2	3	4	1
28	1	1	2	2
29	1	2	1	2
30	2	2	1	4
31	1	3	3	3
32	3	2	2	1
33	2	1	3	1
34	3	3	2	3
35	1	4	1	1
36	2	3	2	2
37	3	2	3	2
38	1	2	1	2
39	2	4	4	3
40	2	3	2	2
41	4	3	3	1
42	4	2	3	3
43	2	3	2	2
	1	2	3	3
44			1	1
45	2	1		2
46	1	2	1	3
47	3	3	3	
48	2	1	2	1
49	1	2	3	2
50	2		4	2

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		ence (Statistics) 4-year B		
Q. No.	Α		32 C	D
51	3	3	1	1
52	1	3	3	1
53	1	2	2	3
54	3	3	3	2
55	1	1	1	1
56	2	1	2	1
57	2	3	3	2
58	2	2	1	1
59	3	3	2	1
60	2	4	2	2
61	3	1	1	4
62	3	3	1	4
63	2	1	3	2
64	3	4	4	1
65	1	3	2	2
66	1	2	3	1
67	3	1	1	3
68	2	1	2	2
69	3	2	2	1
70	4	3	4	2
71	1	4	1	3
72	1	4	3	3
73	3	2	1	2
74	4	1	4	3
75	2	2	3	1
76	3	1	2	1
77	1	3	1	3
78	2	2	1	2
79	2	1	2	3
80	4	2	3	4
81	1	1	3	2
82	3	1	2	4
83	1	3	1	1
84	4	2	3	2
85	3	1	4	1
86	2	1	3	1
87	1	2	2	4
88	1	1	2	2
89	2	1	4	1
90	3	2	3	1
91	3	2	3	1
92	2	4	1	3
93	3	1	1	1
94	2	2	3	4
95	1	1	1	3
96	2	1	2	2
97	3	4	2	1
98	1	2	2	1
99	4	1	3	2
100	2	1	2	3

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