Objective

Paper Code

6185

Intermediate Part First STATISTICS (Objective) Marks: 17 Time: 20 Minutes

Roll No. : _ 52

Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

	objective fype question paper and leave other circle		HSD- B	C	D
.#	Questions	A	B		Quantity
1	When the price of a year is divided by the price of the preceding year, we get:	Value index	Link relative	Simple relative	index
2	The range of the values 6, 8, 10, -5, -10 is:	20	10	0	- 10
3	In a symmetrical distribution, $Q_3 - Q_1 = 20$, median = 15. Q_3 is equal to:	10	15	20	25
4	If $\overline{X} = 33$, which will be minimum?	$\sum X^2$	$\sum (X - 66)^2$	$\sum (X-33)^2$	$\sum (X+33)^2$
5	A distribution with two modes is called:	Unimodal	Bimodal	Multimodal	Normal
6	A frequency polygon is a closed figure which is:	One sided	Two sided	Three sided	Many sided
7	The headings of the rows of a table are called:	Captions	Titles	Stubs	Prefactory notes
8	A measure computed on the basis of a census is called:	Parameter	Statistic	Constant	Class mark
9	A set of all units of interest in a study is called:	Sample	Population	Parameter	Statistic
10	The mean of the hypergeometric distribution is:	nk N	Nk n	Nn k	$\frac{n+k}{N}$
11	In binomial experiment, the successive trials are:		Dependent	Independent	Without replacemen
12	The binomial probability distribution is	P = 0.1	$\mathbf{P} = \mathbf{q}$	P < q	P > q
13	If k is a constant in a continuous probability	0	1	- 1	k
14	An expected value of a random variable is equal	Variance	Standard deviation	Mode	Mean
15	A fair die is rolled. Probability of getting face	$\frac{1}{2}$	$\frac{2}{3}$	$\frac{1}{3}$	5/6
16		≤0	≥0	>1	< 0
.17	· ·	Laspeyre's method	Paasche's method	Fisher's method	Chain bas method

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FSD-24

-2-6. (a) Calculate variance for the marks of 100 students given in the following frequency distribution: 04 1 - 33-5 5 - 77 - 9Marks 40 30 20 10 f (b) First three moments of distribution about Y = 2 are 1, 2.5 and 5.5. Calculate mean and 04 co-efficient of variation. 7. (a)Compute index number of prices for the following data taking 2000 as base year using median 04 as an average: Prices С A В Years 52 2000 18 85 60 2001 22 76 28 66 2002 80 95 80 2003 31 (b) If P(A) = 0.60, P(B) = 0.08 and $P(A \cap B) = 0.01$, calculate $P(A \cup B)$, if: (i) A and B are not mutually exclusive (ii) A and B are mutually exclusive 04 8. (a) Let X be random variable with probability distribution as follows: 04 5 4 2 1 х 0.250 0.050 0.125 0.125 0.450 f(x) Find mean and variance. (b)A continuous random variable X having values only between 0 and 4 has a density function given by: $f(x) = \frac{1}{2} - ax$, where "a" is any constant: Find (i) a (ii) P(1 < X < 2)04 9. (a) An event has the probability $P = \frac{2}{5}$. Find the complete binomial distribution for n = 5 trials. 04 (b)An urn contains nine balls. Five of them are red and four blue. Three balls are drawn without replacement. Find the probability distribution for number of red balls. 04 1119-XI124-5000

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