Roll No.

Inter (Part-I)-A-2021

Time : 20 Minutes

(To be filled in by the candidate

**Statistics** Paper: I

OBJECTIVE - (III)

Marks: 17

5WL-2/

Paper Code 6 1 8 5

Note: - You have four choices for each objective type question as A, B, C and D. The choice which you think i correct; fill that circle in front of that question number in your answer book. Use marker or pen to fill th circles. Cutting or filling up two or more circles will result no mark.

Q.1		Questions	A	В	С	D
1.	The mean devia taken from:	tion is least if deviations are	Median	Mode	A.M.	G.M.
2.	Link relative is	equal to:	$\frac{P_n}{P_0} \times 100$	$\frac{P_n}{P_{n-1}} \times 100$	$\frac{P_0}{P_n} \times 100$	$\frac{P_{n-1}}{P_n} \times 100$
3.	Index number fo	or base period is taken as:	0	1	200	100
4.	<sup>4</sup> C <sub>3</sub> =		24	3	4	Ĭ
5.	If one event is not affected by the outcome of another event, the two events are said to be:		Dependent	Independent	Mutually Exclusive	Both A and B
6.	If $X$ and $Y$ are random variables, then $E(X-Y)$ is equal to:		E(X)-E(Y)	E(X)+E(Y)	X - E(Y)	E(X)-Y
7.	If "C" is a const	ant, then E(C)=	0	1	$C^2$	С
Š.		an and mode of the binomial $(n, p)$ will be equal when:	p = 0.5	p < 0.5	p > 0.5	None of these
9.	In a binomial, n	= 20, $P = \frac{3}{5}$ , the mean of this	60	12	0	8
10.		netric distribution, the trials	Independent	Independent and dependent	Dependent	None of these
11.	If X and Y are i is equal to:	ndependent, then $var(X-Y)$	var(X) - var(Y)	1	$\operatorname{var}(X) + \operatorname{var}(Y)$	0
12.	The positive squared distribution is contact the contact of the co	uare root of the variance of a alled:	Mean Deviation	Standard Deviation	Range	Quartile Deviation
13.	The sum of dev	iations of all the values from mean is:	1	2	3	0
14.	The most frequalled:	uent value in a data set is	Mode	Median	A.M.	н.м.
15.	It is the reciprocal reciprocal of all	cal of Arithmetic Mean of the the values.	A.M.	G.M.	Mode	H.M.
16.	The sum of relative frequencies is always equal to:		0	2	1	3
17.		ature recorded by Weather ample ofdata.	Discrete	Continuous	Qualitative	Secondary

John

220-321-A-1500

Ctati	Roll No.	(To be filled in by the candidate						
Statis	Inter (Part-I)-A-202							
Pape	Subjective	· · · · · · · · · · · · · · · · · · ·						
Note	:- Section I is compulsory. Attempt any Three Question	Marks : 68						
	SECTION - I	is from Section II.						
2.	Write short answers to any Eight parts.	W. C.						
i.	Define the term "Variable".	$(8 \times 2 = 16)$						
ii.	What do you mean by data?							
iii.	Find mean of 5, 3, 2, 7, 3.							
iv.	Define Geometric Mean							
v.	What is Empirical Relationship between mean							
vi.	- Tribulati - O then time Made	nd mode?						
vii.	$11 \ \angle A = 15, n = 3$ , then find Mean							
viii.	Define Mode.							
ix.	The policy index indiffice it higher's to December							
х.	" Hat is composite index number?							
Xi.	Define Simple Index Number.							
xii.	What is simple aggregative index?							
3.	Write short answers to any Eight parts.	(0.0						
i.	Differentiate between class limits and class boundaries.	$(8 \times 2 = 16)$						
ii.	Write down the main steps in the construction of frequence Write the types of dispersion							
iii.								
iv.	If $Q_1 = 20$ and $Q_2 = 60$ , find coefficient of quartile deviation							
v.	Define Average Deviation.	on.						
vi.	What is standard deviation?							
vii.	If $\overline{X} = 10$ and $var(X) = 4$ , find $\overline{Y}$ and $var(\overline{Y})$ when $Y = 2x - 1$	_1						
viii.	what is relative dispersion?	-1						
ix.	What is random experiment?							
х.	What is permutation?	$\mathcal{B}$						
xi.	If A and B are independent events with $P(A) = 0.2$ and $P(A) = 0.2$	(B) = 0.6 find p(1 = )						
xii.	State the classical definition of Probability.	$(B) = 0.6$ , find $P(A \cap B)$						
4.	Write short answers to any S'							
i.	Write down properties of Expectation.	$(6 \times 2 = 12)$						
ii.	If $E(X) = A$ $E(Y) = 2$ $E(Y) = 3$							
iii.	If $E(X) = 4$ , $E(Y) = 3.5$ , then find $E(X - Y)$ .							
iv.	What is meant by variance of the Discrete Random Variable	e?						
v.	Define Probability Distribution.  Define Bernoulli Trial.							
vi.	Write down properties of Division							
vii.	Write down properties of Binomial experiment.							
ix.	A fair coin is tossed 4 times. Find the probabilities of obtaining various number of heads.  Write down properties of Hypergeometric Experiment.							
	Write down properties of Hypergeometric Experiment.  SECTION – II							
5. (a)	The following data has been obtained from a few a few as the second state of the following data has been obtained from a few as	<u>arks</u>						
	after making the substitution: $U = \frac{X - 136.5}{6}$	following data has been obtained from a frequency distribution of a continuous variable $X$ making the substitution: $X = \frac{X}{2} - 136.5$						
	Comment of the control of the contro							
ſ	Compute Harmonic Mean.							
	U	1 2 2						

(b) Calculate  $Q_1$  and  $Q_2$ , from the following data: 12, 10, 19, 20, 11, 27, 30, 28, 45, 70, 65, 60.

(ررق الغ Turn Over)