(7 pages)	Reg. No.:					pling.	18 2180 16	lerred as ——	
Code No.: 10532 E Sub. Code: CMEC 12				(a) .	Probability	(b)	Judgement		
B.A. (CBCS) DEGREE EXAMINATION, NOVEMBER 2022.				3.		Non-Probabili table is a s stical data in -	systematic	Stratified cal arrangeme	ent of
First Semester				(a)	Rows				
Economics - Core STATISTICS FOR ECONOMICS — I					(b)	Columns		*	
					(c) Columns and Rows				
(For those who joined in July 2021 onwards)			(d)		Schedule				
	nree hours $PART A - (10 \times 1 =$	Maximum: 75 marks		4.	A pi (a) (c)	cture is worth - 10 1000	(b)	- words. 100 10000	
Answer ALL questions. Choose the correct answer:			5.	The sum of deviations taken from arithmet is				c mean	
1. As	study which involves each and every unit of the iverse is called ———— method.				(a)	Zero	(b)	One	
uni					(c)	Maximum	(d)	Minimum	
(a)	Complete enumeration	ķ	•	6.	Calculate Median marks from the following data: 5, 12, 15, 8, 20, 32, 25, 40				
(b)	Sampling				o, 1. (a)	2, 10, 0, 20, 02, 8	(b)	20	
(c)	Interview				(c)	17.5	(d)	14	
(d)	Questionnaire				(6)		v. 91	Code No. : 1	0532 E

7.	If the coefficient of variation of a distribution is 50 and its standard deviation is 20, the arithmetic mean shall be ————.									
	(a)	40	(b)	10 .						
	(c)	2.5	(d)	0.4						
	(c)	2.0	(u)	0.4						
8.	Standard deviation can be calculated from									
	(a)	Arithmetic mean	(b)	Median						
	(c)	Any average	(d)	Mode						
9.	If $\beta_2 < 3$, the distribution is ———.									
	(a)	Platykurtic	(b)	Mesokurtic						
	(c)		(d)	Symmetrical						
10.		mean of the distrib greater than the I less than the Mod equal to the Mode	ution Mode le	is positively skewed, is						
¥		PART B $-$ (5 × ver ALL questions, cach answer should r	hoosi	ng either (a) or (b).						
11	(a)	Summarise the in	nport	ance of statistics.						

Or

Page 3

and secondary data.

What is Data? Distinguish between primary

Code No.: 10532 E

12. (a) Write the requisites of a good table.

Or

- (b) Analyse the merits and demerits of graphic presentation of statistical data.
- 13. (a) Explain the characteristics of a good average.

Or

(b) Compute median from the following data:

Value: 0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80

Frequency: 4 12 24 36 20 16 8 5

14. (a) Calculate quartile deviation and its coefficient from the following data.

Height of students (in cms) 120 122 124 126 130 140 150 160

No. of students:

1 3 5 7 10 3 1 1

Or

- (b) Write short note on Lorenz Curve.
- 15. (a) Calculate Kurtosis from the following data. 9, 18, 7, 11, 4, 6, 8.

Or

(b) Explain the different types of skewness through diagram.

Page 4 Code No.: 10532 E [P.T.O.] PART C \longrightarrow (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Describe the important functions of statistics.

Or

- (b) Discuss the methods of collecting primary data.
- (a) Explain the general rules for drawing a diagram.

Or

- (b) Describe the types of classification with example.
- 18. (a) Find the value of mode for the following data:

Marks: 10 15 20 25 36

Numbers: 8 12 36 35 28 18 9

Or

Page 5 Code No.: 10532 E

(b) Find the missing frequency from the following data. The arithmetic mean is 34 marks.

Marks: 0-10 10-20 20-30 30-40 40-50 50-60

No. of students: 5 15 20 - 20 10

19. (a) Calculate mean and standard deviation of the following frequency distribution of marks.

Marks: 0-10 10-20 20-30 30-40 40-50 50-60 60-70

No. of students: 5 12 30 45 50 37 21

Or

(b) Goals scored by two teams in a football match were as follows.

mawn were as for	0110.			
No. of Goals scored in a football match	No. of Football matches played			
	Team 'A'	Team 'B'		
. 0	15	20		
1	10	10		
2	7	5		
3	5	4		
4	3	2		
5	2	1.		
Total	42	42		

Calculate coefficient of variation and state which team is more consistent.

Page 6 Code No.: 10532 E

20. (a) Compute Karl Pearson's coefficient of Skewness from the following data:

 Profit (Rs. Lakhs):
 70-80
 80-90
 90-100
 100-110

 No. of companies:
 12
 18
 35
 42

 Profit (Rs. Lakhs):
 110-120
 120-130
 130-140
 140-150

 No. of companies:
 50
 45
 30
 8

Or

(b) Find coefficient of Skewness based on quartiles and median from the following data:

Variable: Less than 10 10-20 20-30 30-40 40-50 50-60 More than 60 Frequency: 12 28 50 66 18 16 10

Page 7 Code No.: 10532 E