(6 pages)		Res	Reg. No. :					
Cod	le N	o.: 24035 E	Sub. Code : AMEC 12					
	B.A. (CBCS) DEGREE EXAMINATION, NOVEMBER 2020.							
First Semester								
${\bf Economics-Main}$								
	${\bf STATISTICAL\ METHODS-I}$							
(For those who joined in July 2020 onwards)								
Time : Three hours Maximus			Maximum: 75 marks					
	PART A — $(10 \times 1 = 10 \text{ marks})$ Answer ALL questions. Choose the correct answer:							
1.	An –	is a ter	tative statement					
	(a)	Statistical data						
	(b)	Hypothesis						
	(c)	Mathematical stat	istics					
	(d)	Survey						
2.	Statistics deals with ————							
	(a)	Groups						

(b)

(c)

(d)

Aggregates

None of these

Group (or) aggregate

(a)	Title	(b)	Caption	
(c)	Stubs	(d)	Foot note	
Line	e diagram is a ———		dimensional diag	
(a)	one	(b)	two	
(c)	three	(d)	none of these	
	lian refers to the		value	
(a)	First	(b)	Second	
(c)	Last	(d)	Middle	
Wha	at is the mode for the	e follo	owing data?	
60,	77, 74, 62, 77, 70, 68	, 65,	80, 77	
(a)	60	(b)	62	
(c)	77	(d)	74	
Coefficient of range				
Coe				
	$\frac{L+S}{L-S}$	(b)	$\frac{L-S}{L+S}$ $\frac{L-S}{L}$	

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deviation in the year 1893					
(a)	Secrist	(b)	Webster		
(c)	Karl Pearson	(d)	Bowley		
Third moments about the origin is ————					
(a)	Skewness				
(b)	Kurtosis				
(c)	Standard deviation				
(d)	Mean deviation				
In a negatively skewed distribution					
(a)	Mean > Median > Mode				

Mean < Mode < Median

Mean > Mode > Median

Mean < Median < Mode

(b) (c)

(d)

PART B — 
$$(5 \times 5 = 25 \text{ marks})$$

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

Answer should not exceed 250 words.

11. (a) Explain the scope of statistics.

Or

(b) What are the precautions in the use of secondary data?

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12. (a) Explain the types of classification.

Or

- (b) Mention the rules for tabulation.
- 13. (a) What are the advantages of median?

Or

(b) Calculate the mode for the following data:

x: 15 25 35 45 55 65 75

f: 185 77 34 180 136 23 50

14. (a) State the qualities of a good measure of dispersion.

Or

(b) Calculate standard deviation for the following data:

43, 48, 65, 57, 31, 60, 37, 48, 78, 59.

15. (a) Write a note on relative measure of skewness.

Or

(b) Calculate  $\mu_1, \mu_2, \mu_3$  and  $\mu_4$  for the following data:

x: 0 5 2 6 4

f: 5 10 15 20 25

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[P.T.O.]

PART C — 
$$(5 \times 8 = 40 \text{ marks})$$

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

Answer should not exceed 600 words.

16. (a) Explain the limitations of statistics.

Or

- (b) Explain the various methods of collecting primary data.
- 17. (a) What are the types of tables?

Or

- (b) Explain the types of diagrams.
- 18. (a) Discuss the merits and demerits of Arithmetic mean.

Or

(b) Calculate the median for the following data:

x: 18-22 26-30 30-34 22-26 38-42

f: 120 280 260 125 184

*x*: 54-58 34-38 42-46 50-54 46-50

f: 53 155 162 75 86

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19. (a) Calculate mean deviation from mean for the following data:

x: 0-20 20-40 40-60 60-80 80-100

f: 15 20 25 10 30

Or

(b) Find the quartile deviation and the coefficient of quartile deviation for the following data:

x: 5-7 8-1011-13 14-16 17-19

f: 14 24 38 20 4

(a) Calculate Karl Pearson's coefficient of 20. skewness for the following data:

x: 0-10 10-20 20-30 30-40 40-50

*f* : 8 11 26 9 6

Or

Calculate Bowley's coefficient of skewness for the following data:

20-50 50-100 100-250 250-500 500-1000 0-2020 50 69 30 25 19 f:

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