(7 pa	zes)				3.	Gra	phs of time serie	s are ca	lled	
	,	Reg. N	o. :			(a)	Line graph	(b)	Histograms	
Code No.: 10613 E Sub. Code: CMEC 12					4.	(c)	Pie diagram	(d)	Pictogram	
D A (ODCC) DECREE EVAMINATION						Classification is the process of arranging data in				
B.A. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.						(a)	different colum	nns		
First Semester						(b)	different rows			
Economics - Core						(c)	different colun	nns and	rows	
STATISTICS FOR ECONOMICS – I						(d) grouping of related facts in different classes				
(For those who joined in July 2021 – 2022)						(u)	grouping of rei	iated lac	ts in unerent classes	
Fime: Three hours Maximum: 75 marks					5.		calculating ange the data.		, it is necessary to	
		PART A — (10 ×	1 = 10	) marks)		(a)	Arithmetic Me	an		
		Answer ALL	quest	ions.						
	Choos	se the correct ansv	ver:			(b)	Geometric Me	an ·		
l.		atin word 'Status'	mean	S		(c)	Median			
		Collection of data				(d)	Mode			
		Presentation of da	ıta		6.	Cal	culate Mode fro	m the fo	ollowing data : 25, 36,	
	. ,	Political state					30, 32, 25, 32, 33		mowing data . 20, 00,	
2.	Statis		e mos	t dangerous tools in		(a)	25	(b)	32	
		ands of		-0-1		(c)	-40	(d)	30	
		Expert	(b)	Trained					G 1 37 10010 F	
	(c)	Experienced	(d)	Inexpert				Page 2	Code No. : 10613 E	
7.	The state of the s					PART B — $(5 \times 5 = 25 \text{ marks})$				
	шър	dispersion.				Answer ALL questions, choosing either (a) or (b).  Answer should not exceed 250 words.				
	(a)	Frequency Polyg	on							
	(b)	Band Graph			11.	(a)	Write a brief		Census method.	
	(c)	Lorenz Curve						Or		
	(d)	All the above	)			(b)			of secondary data.	
8.	Whe	en Mean is 79 ar	nd Sta	ndard deviation is 8.	12.	(a)	Explain the e	ssential	parts of a Table.	
	C.V.	.=						Or		
	(a)	10.12	(b)	9.88		(b)	Construct a given data.	freque	ncy polygon from the	
	(c)	87	(d)	6.32		Marks No. of	: 0-10 10-20 students : 4 6	20-30 30- 14 1	40 40-50 50-60 60-70 70-80 6 14 8 16 5	
9.	If β	$r_2 = 3$ , the distribution	tion is	called	13.	(a)	Estimate the	value o	of Harmonic mean from	
	(a)	Mesokurtic	(b)	Leptokurtic	19.0	(-)	the following	data.	030-4040-5050-60	
	(c)	Platykurtic	(d)	Skewed				4 6	10 7 3	
10.		en coefficient o	f ske	wness is zero, the		ΔLV	<b>TL</b>	Or	100 students were found	
	(a)	J shaped	(b)	U shaped	t in	(b)	to be 40. La score 53 was	ter on i	t was discovered that a l as 83. Find the correct	
	(c)	Symmetrical	(d)	L shaped	Ho.		mean.			
	(0)	~ J minoviicai	(4)	L Shaped						

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Explain the concept of standard deviation. 14. What are its merits and demerits?

Or

Calculate the mean deviation from the mean (b) for the following data.

> X: 2 4 6 8 10 12 14 16 F: 2 2 4 5 3 2 1 1

15. Write a short note on Kurtosis.

Or

If Mean 40, Standard Deviation 10, Karl Pearson's coefficient of Skewness = 0.5, find Median and Mode.

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

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

Answer should not exceed 600 words.

Describe the importance and limitations of 16. Statistics.

Or

(b) Examine the merits and demerits of Sampling method.

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Estimate 20. (a) Karl Pearson's coefficient of skewness.

> Class: 0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 11 22 35

30

Or

With the help of diagrams show the types of (b) Skewness and describe the various measures of skewness.

21 11

17. Illustrate the types of classification.

Or

- Discuss the merits and demerits of diagrammatic presentation.
- 18. Calculate the Mode by grouping method from the following data.

Class Interval :  $10-20\ 20-30\ 30-40\ 40-50\ 50-60\ 60-70\ 70-80\ 80-90$ Frequencies: 5 9 13 21 19 15

Or

Compute Median and Arithmetic mean from the following series.

X: 0-5 5-10 10-15 15-20 20-25 25-30

F: 5 10 8

The data relating to the monthly production of a product in two factories are given below.

Factory Monthly production (in tonnes)

Α 30 50 45 54 49 53 60 46 41 56 59 45

70 120 20 15 130 100 90 80 10 25 95 85 В

Analyse which factory is more efficient and which factory is more consistent.

Explain the different methods of measuring dispersion.

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