Reg.	No
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FYUG PROGRAMME EXAMINATION, NOVEMBER 2024

(2024 Admission Regular)

SEMESTER I – MINOR B COURSE (STATISTICS) ST1DSCB101B24- BASIC STATISTICS

Time: 1.5 Hours

Maximum Marks: 50

PART A

L. Answer all questions (MCO). Each question carries 1 mark

Q.No:	QUESTIONS	CO	LEVEL
1.	Which of the following is an example of interval data?		
	1. Weight in kilograms		
	2. Test scores (out of 100)	1	U
	3. Temperature in Fahrenheit		
	4. Eye color		
	Which of the following is continuous data?		
	1. Number of books		
2.	2. Speed of a car (in km/h)	1	U
	3. Number of siblings		
	4. Days of the week		
-	The mean of the first five odd numbers is:		
	1. 5		
3.	2. 7	4	Ap
,	3. 9		•
	4. 11		
	Which chart is best suited for showing trends over time?		
	1. Line graph	ļ	
4.	2. Pie chart	3	U
	3. Bar chart		
	4. Scatter plot		
5.	What is the range of the dataset: 3, 7, 10, 15, 20?		
	1. 15		
	2. 17	5	A
	3. 10		
	4. 20		

(5x1=5)

II. Answer all questions in one word. Each question carries 1 mark

Q.No:	QUESTIONS	CO	LEVEL
6.	The data with less coefficient of variation is more	5	U
7.	The intersection point of less than Ogive and greater than Ogives give	4	U
8.	A sampling technique where the population is divided into subgroups, and samples are drawn from each subgroup is called	1	U

9.	The divides the data into two equal parts when the observation is arranged in ascending or descending order .	4	U
10.	The quartile is often called median.	5	U

 $\overline{(5x1=5)}$

PART B

Answer any six questions in one paragraph. Each questio	n carries 5 marks.
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Q.No:	QUESTIONS	CO	LEVEL
11.	The following data shows students' scores on a quiz: 10, 12, 14, 16, 18. Compute the standard deviation.	5	Ap
12.	Compute the median and mode of the following dataset: 2, 3, 5, 5, 6, 7, 8.	4	Ap
13.	Compare between a population and a sample. Provide examples to illustrate the difference.	1	U
14.	Infer the difference between primary data and secondary data with suitable examples.	2	U
15.	Given the dataset: 50, 55, 60, 65, 70, 75, compute the standard deviation and variance.	5	Ap
16.	For two products with mean sales of 100 and 200 units, and standard deviations of 20 and 30, compute the coefficient of variation.	5	Ap
17.	Construct a bar chart for the following data on favorite fruits: Apples (10), Oranges (15), Bananas (12), Grapes (8).	3	U
18.	Compare a histogram and a frequency polygon.	3	U

(6x5=30)

PART C

Answer any one question. The question carries 10 marks.

No:

Q.No:	QUESTIONS	CO	LEVEL
19.	Given the following weight data of 40 individuals: 50-55 kg (5), 55-60 kg (10), 60-65 kg (15), 65-70 kg (10). Compute the mean, median, and mode of the distribution. (The frequencies are given in brackets)	4	Ap
20.	A survey records the following hours spent studying by 50 students: 1-2 hours (10 students), 3-4 hours (15 students), 5-6 hours (15 students), 7-8 hours (10 students). Compute the standard deviation and coefficient of variation.	5	Ap

(1x10=10)

CO: Course Outcomes Level: R - Remember, U - Understand, Ap- Apply, An- Analyze, E- Evaluate, C- Create