FYUG PROGRAMME EXAMINATIONS, NOVEMBER 2024 (2024 Admission Regular)

SEMESTER I – MDC (STATISTICS) ST1MDC01B24 – BASICS OF STATISTICS

Time: 1 Hour

Maximum Marks: 35

PART A

I. Answer any ten questions. Each question carries 2 marks

Q.No:	QUESTIC	CO	LEVEL	
1.	A survey was conducted to find the a worked per week by a group of employere as follows (in hours): 38, 40, 42, 45, 50, 55, 58, 60, 65, 70.	3	Ap	
	Compute the median number of hour			
2.	Explain classification and tabulation.	1	U	
3.	Distinguish between primary and sec	2	U	
4.		following. II variable tudents day	1	U
5.	Given the following data set: 5, 10, 15, 2 Compute the 75th percentile.	4	Ap	

	Compare list I and 1	ist II, and choose the correct option from the						
6.		following.						
	List A	LIST B						
	Classification	Basis of classification	1	U				
	(A) geographical	(I) based on time						
	(B) chronological	(II) based on location						
	(C) qualitative	(III) based on numerical values						
	(D) quantitative	(IV) based on attributes or qualities						
	a) (A)-(III), (B)-(IV),(C)							
	c) (A)-(II),(B)-(III),(C)-(
7.	Calculate the range	4	Ap					
8.	Distinguish between							
		2	U					
	Define pie chart and							
9.	a sector in a pie cha	1	R					
	Compare list I and I							
	Compare list I and I							
	LIST I	following.						
	(A) Histogram	(I) Represents data categories						
		and frequencies with						
		rectangular bars.						
	(B) Pie chart	(II) Represents parts of whole with sectors						
	(C) Ogive	(C) Ogive (III) Used to show distribution						
10.		of continuous data						
	(D) Bar chart	(IV) Displays cumulative	1	U				
	``	frequencies						
		III),(D)-(IV) b) (A)-(II), (B)-(III),(C)-(IV),(D)-(I)						
	a) (A)-(I), (B)-(II),(C)-(
	c) (A)-(III),(B)-(II),(C)-(:					
11	In a study, 50 partic							
11	worked per week: 4	3	Α					
11.	7	worked per week: 40, 45, 50, 35, 55, and 60 hours. Calculate the mean number of hours worked per week?						
11.	mean number of no	uis worked per week!		Ap				
11.	mean number of no	es of central tendency.		710				

PART B

II. Answer any three questions in one paragraph. Each question carries 5 marks.

Q.No:	QUESTIONS							CO	LEVEL		
13.	Calculate the standard deviation for the following data						4	Ap			
	x 6 f 3	7		9	9 13	10	11 5	12	,		r
14.	Construct a data Marks								-	1	Ap
	Number of students 10 15 15 10 7 3										
15.	class	0-9	10- 19	20- 29 24	30- 39	40- 49 5	50- 59	60- 69 5	70- 79	3	Ap
16.	Distinguish between simple random sampling and stratified random sampling.							2	U		

(3x5=15)

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