CO5- Apply measures of dispersion to data

Printed Pages: 2

University Roll No.

Mid Term Examination, Even Semester 2022-23
B.Tech (Bio-Tech), I Year, II Semester
BMAS 0131 & Calculus and Statistics

Time: 2 Hours

Maximum Marks: 30

Instruction for students: Attempts all of the questions.

 $3 \times 5 = 15 \text{ Marks}$ Section - A Marks CO BL KL Detail of Question No. The runs scored by 11 players of a team in a cricket match are as follows: E 7, 16, 121, 51, 101, 81, 1, 16, 9, 11, 16 Find the median of this data. Integrate $\cos^2 x$ with respect to x by using 3 C trigonometric identities. Write a note on measures of central tendency emphasising on their importance and applications in biostatistics. Given that the mean of 5 numbers is 18. F U If one number is excluded, their mean becomes 16. Find the excluded number. How can you apply integration by parts in solving an 4 integral? Find the integration of xe^x using integration An by parts. Evaluate $\int \frac{x \, dx}{x^2 - 3x + 2}$ using partial fraction method. 3

Section - B

 $5 \times 3 = 15 \text{ Marks}$

No				Det	ail of	f Que	stion					Marks	CO	BL	KI
1	Find mean Class: 0-10 f: 5 where f is f	0 1	10-2	0 2	wing 20-3 20	0 3	a: 30-40 28		0-50	50-	-60	5	3	R	F
2	Discuss the mode of the Size (x) Frequency (f)	4 2	5 5	6 8	7 9	8 12	9 14	10. 10 14	11 15	12	13	5	3	Е	P
		examilass is 7	mina A i 1.2.	eva (x^2) sin x ation s 68 If	$+ x$ $\frac{\sin x}{+ \cos x}$ OF 1, the 1.4 a the	e the + 1 aver	follo) da	e gra of all of	ide of the both	f all	the ents	5	1, 3	C	M

CO – Course Outcome, BL – Abbreviation for Bloom's Taxonomy Level (R-Remember, U-Understand, A-Apply, An-Analyze, E-Evaluate, C-Create), KL – Abbreviation for Knowledge Level (F-Factual, C-Conceptual, P-Procedural, M-Metacognitive).