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SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

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Module No.	Question No.	Question							K Level	CO
1	11.a.	Write a note on frequency distribution.							K5	CO1
	(OR)									
	11.b.	Calculate the arithmetic mean for the following frequency distribution.								
		Age	10-20	20-30	30-40	40-50	50-60	60-70		
	Risk of Food Allergy	10	18	20	26	30	28	18		
2	12.a.	Define correlation and give various methods in measuring correlation.							K2	CO2
	(OR)									
	12.b.	What is chi-square test and give its importance in Biostatistics.								
3	13.a.	State the principles and types of fixation used in histological studies.							K3	CO3
	(OR)									
	13.b.	Identify the construction, working mechanism and applications of an ultracentrifuge.								
4	14.a.	Narrate the principles and applications of paper chromatography.							K4	CO4
	(OR)									
	14.b.	Describe the Beer- Lambert law and its significance in UV- Visible spectroscopy.								
5	15.a.	Explain different types of plagiarism and suggest ways to prevent it in academic writing.							K5	CO5
	(OR)									
	15.b.	Analyze the role of e- journals and open- access journals in scientific research.								

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	What is collection of data and write the types of data.	K4	CO1
2	17	What is student T-test? What are the different types of T-Test involved.	K5	CO2
3	18	Compare and contrast Transmission Electron Microscopy (TEM) and Scanning Electron Microscopy (SEM).	K5	CO3
4	19	Clarify the steps involved in performing RT- PCR and its applications.	K5	CO4
5	20	Discuss how research findings can be effectively presented using statistical software, focusing on the graphical representation and interpretation of results.	K6	CO5