BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)

CLASS: BSC **SEMESTER : I**
BRANCH: CHEMISTRY **SESSION : MO/2025**

SUBJECT: ED103 STATISTICAL METHOD-01

TIME: 02 HOURS **FULL MARKS: 25**

INSTRUCTIONS:
1. The question paper contains 5 questions each of 5 marks and total 25 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
***4*. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates**

			CO	BL
Q.1(a)	Define the following: population, censos, sample in statistics	[2]	1	
Q.1(b)	Find the frequency distribution table from the age distribution of 20 people: 51, 65, 68, 87, 76, 56, 69, 75, 89, 80, 61, 66, 73, 86, 79, 70, 71, 54, 87, 78	[3]	1	
Q.2(a)	Compute the number of class intervals and class width of the frequency distribution in Q.1(b)	[2]	1	
Q.2(b)	Find the mean, median and mode of the following monthly expenses of 4 person: ₹12,000, ₹15,000, ₹13,500, ₹14,000	[3]	2	
Q.3(a)	Create a Pie Chart of the family for migration in a village with the following details:	[2]	1	

Purpose	Employment	Education	Climate	Relocation
# families	25	10	5	10

Q.3(b)	Create a bar chart of the following data distribution:			[3]	1

Year	1989	1990	1991	192	1993
Profit (million)	10	12	18	25	42

Q.4(a)	Compute the mean of grouped data in frequency distribution table of Q.1(b)	[2]	2	
Q.4(b)	Compute the mode of the grouped data in frequency distribution table of Q.1(b)	[3]	2	
Q.5(a)	Define merit and demerits of mean, median and mode of a given data.	[2]	2	
Q.5(b)	Compute the median of the grouped data in frequency distribution table of Q.1(b)	[3]	2	

:::::18/09/2025 :::::E