BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION MO/2024)

CLASS: BCA SEMESTER: III
BRANCH: BCA SESSION: MO/2024

SUBJECT: CN209 STATISTICS WITH R

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

.....

Q.1(a)	Define Statist decisions?	ics. How	do you th	ink the kn	owledge	of statist	ics is esse	ntial in m	anagement	[2]	CO 1	BL 1
Q.1(b)	Explain Brief frequency dis	-		ethods tl	hat are	used for	graphica	l represe	entation of	[3]	3	2
Q.2(a) Q.2(b)	·							[2] [3]	1 1	1 2		
Q.3(a) Q.3(b)	Explain the cl If the median Class interval Frequency					ion is 32. 40-50	5, find th 50-60	e values 60-70	of f ₁ and f ₂ . Total 40	[2] [3]	1 2	1 3,4

Q.4(a) Describe the various relationship among mean, median and mode.

[2] 3 2

Q.4(b) The profit earned by 100 companies during 2022-2023 are given below.

[3] 2 3.

Profits lakh)	(in	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. Compan	of ies	4	8	18	30	15	10	8	7

Calculate D₃ and P_{80.}

Q.5(a) Define measures of dispersion. Point out the four-basic significance of measuring [2] 3 1 dispersion.

Q.5(b) The following data describe the age at which employee reach to the level of senior [3] 4 3,4 manager in multinational company:

Age in Years	Below 35	35-40	40-45	45-50	Above 50
No. of person reaching	14	60	95	24	7
the level					

Find the Coefficient of quartile deviation.

:::::25/09/2024:::::E