



UNIVERSITY OF NORTH BENGAL
BBA Honours 5th Semester Examination, 2020

CC11-BBA

BUSINESS STATISTICS

Full Marks: 60

ASSIGNMENT

The figures in the margin indicate full marks.

Answer any two questions from the following

30×2 = 60

1. (a) Find Q_1 , Q_2 , Q_3 and Quartile deviation from the following frequency distribution: 18+12 = 30

Weight (kg)	No. of Students
20-24	2
24-28	3
28-32	5
32-36	10
36-40	8
40-44	6
44-48	16
48-52	12
52-56	10
56-60	7

- (b) Calculate the mean from the following frequency distribution:

x	2	3	5	6-8	9-11	12-14	15-20	21-26	27-32
f	4	1	2	3	4	3	6	3	1

2. (a) An analysis of the monthly wages paid to the workers in two firms, A and B, 15+15=30 belonging to the same industry which gives the following results:

	Firm A	Firm B
No. of Wage earners	586	648
Average monthly wages	Rs. 52.5	Rs. 47.5
Variance of wages	100	121

- (i) Which firm A and B pays out the largest amount as monthly wages?
(ii) Which firm A and B has greater variability in individual wages?

- (iii) Find the Average Monthly Wages and the Standard Deviation of the wages of all the workers in two firms A and B taken together and mention which firm is more consistent.
- (b) Nine students obtained percentage of marks in College Test (X) and in Final University Examination (Y). Calculate the co-relation coefficient and discuss the relation between them.

X	51	63	73	46	50	60	47	36	60
Y	49	72	74	45	58	66	50	30	35

3. (a) Fit a straight line trend to the following data:

10+20=30

Year	1951	1952	1953	1954	1955	1956
Electricity generated (Million kw hours)	101	107	113	121	136	148

- (b) Prepare price and quantity index numbers for 2016 with 2010 as base from the following data by using Edgeworth-Marshall's and Fisher's method.

Commodity	Unit	2010		2016	
		Quantity	Price (Rs.)	Quantity	Price (Rs.)
A	Kg	5	2.00	7	4.50
B	Quintal	7	2.50	10	3.20
C	Dozen	6	8.00	6	4.50
D	Kg	2	1.00	9	1.80

—x—