UNIVERSITY OF NORTH BENGAL

BBA/B.Com. LL.B. Honours 1st Semester Examination, 2022

BUSINESS STATISTICS

PAPER CODE: CC02

Time Allotted: 3 Hours

Full Marks: 100

The questions are of equal value
The figures in the margin indicate full marks.

Answer any *four* questions and Question No. 7 is compulsory to attempt

1. (a) Find the Mean of the following frequency distribution: — 10

Weight	50-60	60-70	70-80	80-90	90-100
No. of person	15	20	25	30	10

(b) What is central tendency? Explain the different measures of central tendency. — 4+6

2. (a) Explain the term Sampling. — 5

(b) Discuss the various types of sampling vividly. — 15

3. Four cards are drawn at random from a pack of 52 cards. Find the probability that: — 4×5 = 20

(a) They are king

(b) All of them are aces

(c) All of them are spades

(d) Two are red and two are black

(e) They are face cards.

4. (a) Describe the use of statistics in business and economics. — 10

(b) From the following data, find the inter-quartile range: — 10

Marks	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. of students	4	12	18	28	19	14	5

5. (a) A die is thrown. Find the probability of getting: — 10

(i) a prime number

(ii) 2 or 4

(iii) a multiple of 2 or 3

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(b) Three coins are tossed together. Find the probability of getting: 10
    (i)   Exactly two heads
    (ii) At least two heads
    (iii) At least one head and one tail
    (iv) No tails

6. (a) Find the quartile deviation, from the following information: 10

Marks	10-20	20-30	30-40	40-50
No. of students	5	12	15	20

(b) Discuss the difference between primary source of data and secondary source of data. 10

7.   Write short notes (any *four*): 5×4 = 20
    (a) Methods of Collecting Secondary Data.
    (b) Limitation of statistics
    (c) Concept of standard deviation.
    (d) Relationship between mean, median and mode
    (e) Simple random Sampling
    (f) Cluster Sampling.

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