

Roll No.

[2]

F010102T(A)

questions. Each question carries 3 marks, maximum 150 words each.

F010102T(A)

B. B. A. (First Semester)

EXAMINATION, 2022-23

(NEP)

BUSINESS STATISTICS

Time : One Hour] [Maximum Marks : $37\frac{1}{2}$

Note : This paper consists of two Sections A and B. Carefully read the instructions of each Section in solving the question paper. Candidates have to write their answers in the given answer-copy only. No separate answer-copy (**B Copy**) will be provided.

Section—A

(Short Answer Type Questions)

Note : All questions are compulsory. Answer the following questions as short answer type

P. T. O.

1. (A) Define probability. Write properties of Normal distribution.
- (B) What is hypothesis ? Discuss type I and Type II error.
- (C) Write short notes on Karl Pearson's coefficient of correlation. Discuss significance of correlation.
- (D) Differentiate between means, median and mode with suitable examples.
- (E) What do you understand by classification and tabulation of data ? Elaborate the types of classification.
- (F) Define Statistics. What are the characteristics of statistics ?
- (G) Write short notes on types of data.

Section—B

(Long Answer Type Questions)

Note : This section contains four questions from which *one* question is to be answered as long question. Each question carries $16\frac{1}{2}$ marks, maximum 500 words each.

2. What do you understand by sampling ? How is it different from census ? Briefly discuss

methods of sampling. What are sampling and non-sampling errors ?

Or

3. Give below is the distribution of marks obtained by BBA Ist Semester students in an examination :

Marks	No. of Students
10—20	7
20—30	15
30—40	18
40—50	25
50—60	30
60—70	20
70—80	16
80—90	7
90—100	2

Find : <https://www.csjmuonline.com>

- (i) Mean
- (ii) Median
- (iii) Mode
- (iv) Mean Deviation
- (v) Standard Deviation
- (vi) Coefficient of variation

Or

4. Discuss measures of variations. Write its significance. Briefly explain the properties of a good measure of variation. What do you understand by skewness and kurtosis.

Or

5. Obtain regression equation of Y on X and estimate Y when X = 35 from the following data :

X	Y
25	43
28	46
35	49
32	41
31	36
36	32
29	31
38	30
34	33
32	39