BBA-302

Business Statistics (व्यवसायिक सांख्यिकी)

Bachelor of Business Administration (BBA-10/12/16/17)

3rd Semester, Examination June 2022

Time: 2 Hours Max. Marks: 80

Note: This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section - A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only.

$$[2 \times 20 = 40]$$

P.T.O.

Q.1. Goals scored by two teams in a football session were as follows:

No of Goals	No. of Matches Played	
Scored	Team A	Team B
0	15	20
1	10	10
2	7	5
3	5	4
4	3	2
5	2	1
Total	42	42

Calculate the co-efficient of variation and state which team is more consistent.

- Q.2. Define the term 'Statistics'. Explain its characteristics.
- Q.3. Discuss the relative merits and demerits of mean, median & mode. Which of the measures do you consider as most satisfactory and why?
- Q.4. Calculate Karl-pearsons co-efficient of correlation between birth rate and death rate given below:

Birth rate	Death rate
24	15
26	20
32	22
33	24
35	27
30	24

P.T.O.

Q.5. What is a time-service? What are its main components? Give illustrations for each of them.

Section - B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answertype questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only.

$$[4 \times 10 = 40]$$

- Q.1. What do you mean by regression? Why there exists two regression lines?
- Q.2. Which of the following 2 groups is more symmetrical in distribution?
 - a) Mean 33, S.D. 10, Median 24
 - b) Mean 22, S.D. 12, Median 25
- Q.3. Narrate the mathematical properties of standard Deviation. Why is standard Deviation regarded superior to other measures of dispersion?
- Q.4. Outline in brief the role of statistics in Management. P.T.O.

- Q.5. Write a note on inter-relationship of Mean, Median and Mode.
- Q.6. State the important characteristics of normal distribution.
- Q.7. A problem of statistics is given to five students A, B,C, D, and E. Their chances to solving it are 1/3, 1/5,1/7, 1/8 and 1/9. What is the probability that the problem will be solved.
- Q.8. A machine produces 5 precent defectives. If five parts are taken at random, what is the probability that 3 will be non-defective.
