Roll No.

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# **BBA-206(N)**

# B. B. A. (Second Semester) EXAMINATION, May, 2018

## (New Course)

## Paper Sixth

# **BUSINESS STATISTICS**

Time: Three Hours]

[ Maximum Marks: 70

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Note: Attempt questions from all Sections as directed.

Inst.: The candidates are required to answer only in serial order. If there are many parts of a diestion, answer them in continuation.

#### Section-A

## (Short Answer Type Questions)

Note: All questions are compulsory. Each question carries 3 marks.

 (A) The following set of numbers represents mutual fund prices reported at the end of a week for selected 40 nationally sold funds:

10	17	15	22	11	16	19	24	29	18
25	26	32	14	17	20	23	27	30	12
_			<u></u>						38
34	13	10	16	20	22	29	29	23	31

Arrange the prices in a continuous frequency distribution.

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(B) What are the characteristics of a good table?

(C) Define median and discuss its advantages and disadvantages.

(D) What do you understand by coefficient of variation? Discuss its importance in business problems.

(E) Explain kurtosis with the help of diagram.

(F) Distinguish between sampling and non-sampling errors.

(G) What are the features of a binomial distribution?
When does a binomial distribution tend towards a Poisson distribution?

(H) You are given the following information:

	Advt. (₹ in lakh)	Sales (7 in lakh)
$\bar{x}$	10	90
σ	3	12
	Coefficient of corr	elation = 0.8

Obtain the two regression equations.

- (I) The mean wage of 100 workers in a factory, running two shifts of 60 and 40 workers respectively is ₹ 38. The mean wage of 60 labourers working in the morning shift is ₹ 40. Find the mean wage of 40 workers working in the evening shift.
- (J) If P (A) = 0.3, P (B) = 0.2 and P (C) = 0.1 and A, B, C are independent events, find the probability of occurrence of at least one of the three events A, B and C.

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#### Section -B

### (Long Answer Type Questions)

Note: Attempt any two questions. Each question carries 10 marks.

2. Consider the following distribution to calculate the value of mean and median:

Class Interval	Frequency		
0-10	12		
10—20	18		
20-30	20		
30—40	25		
40—50	23		

- 3. The mean and standard deviation of 20 items is found to be 10 and 2 respectively. At time of checking it was found that one item 8 was incorrect. Calculate the mean and standard deviation, if:
  - the wrong item is omitted.
  - it is replaced by 12.

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- 4. Differentiate between skewness and dispersion.
- 5. Explain the concept of regression analysis. Also, write the usefulness of regression in business.

#### Section-C

### (Long Answer Type Questions)

Note: Attempt any two questions. Each question carries 10 marks.

6. What is sampling? Why is it done? Discuss the different methods used for sampling.

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- 7. Describe the steps used to test a hypothesis. Also, explain the types of hypothesis.
- 8. From a pack of 52 cards, two cards are drawn without replacement. Find out the probability that:
  - both are king
  - first card is of heart and the second black
  - the first card is of heart and the second red.
  - first is of heart and the second of ace.
  - first card is of king and the second of ace.
- Write short notes on any four of the following:
  - Bayes' theorem
  - Type I and Type II errors
  - Positive and negative correlation
  - (d) · Primary and secondary data
  - Poisson's distribution

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