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Total No. of Pages :02

Total No. of Questions : 09

B.Com.(Hons) (2018 Batch) (Sem.-2) BUSINESS STATISTICS Subject Code : BCOM-GE-201-18 M.Code : 75830

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B consists of FOUR Sub-sections : Units-I, II, III & IV.
- 3. Each Sub-section contains TWO questions each, carrying TEN marks each.
- 4. Student has to attempt any ONE question from each Sub-section.

SECTION-A

1. Write briefly :

- (a) Define Primary data.
- (b) Define Stratified sampling.
- (c) Define Judgement sampling.
- (d) Define Harmonic mean.
- (e) Define Quartiles.
- (f) Define Variance.
- (g) Define Rank correlation.
- (h) State the principle of least square.
- (i) State Bayes's theorem.
- (j) Define Normal distribution.

SECTION-B

UNIT-I

2. Draw a bar chart of the procurement of rice (in tons) in an Indian state :

Years	1998	1999	2000	2001	2002	2003
Rice-in tons	4500	5700	6100	6500	4300	7800

3. What do you mean by sampling? Critically examine the well known methods of probability sampling and non-probability sampling.

UNIT-II

4. Find the mean of the following data :

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students	42	44	58	35	26	15

5. Calculate the Standard deviation :

X	50	60	70	80	90	100	110	120
F	14	40	54	46	26	12	6	2

UNIT-III

6. From the following data, obtain the two regression equations :

Sales	91	97	108	121	67	124	51	73	111	57
Purchase	71	75	69	97	70	91	39	61	80	47

7. Explain the meaning and significance of the concept of correlation. How will you calculate it from statistical point of view?

UNIT-IV

- 8. Define Random Experiment and trial. Find the probability that in the random arrangement of the letters of the word 'ASSASSINATION', the four 'S' come consecutively.
- 9. Define Poisson distribution and state the condition under which this distribution is used. Also obtain the Poisson distribution as a limiting case of binomial distribution.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.