

[A-1/A-2]

SEAT No. _____

No. of Printed Pages : 1

SC

BBA SEMESTER III EXAMINATION (2010 Batch) 2018

SUBJECT: STATISTICS FOR MANAGEMENT I

DATE: 28/11/2018, Wednesday SUBJECT CODE: UB03CBBA04/09
TIME: 10.00 am to 12 Noon

Note (i) Figures to the right indicate marks

(ii) Statistical table will be provided on request

(iii) Use of simple calculators is allowed

Q.1 (a) Write note on (i) Frequency Distribution and (ii) Primary Data 8

Q.1 (b) For the following data compute mean, standard deviation and c.v. 7
Class: 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79
F: 6 14 16 24 20 10 6 4

OR

Q.1 (a) For the following data, using tally marks and taking one of the inclusive classes as 22 – 25, prepare a frequency distribution: 8

10 17 15 22 11 16 19 24 29 18 25 26 32 14 17 20 23 27 30 12 15
18 24 36 18 15 21 28 33 38 34 13 10 16 20 22 29 19 23 and 31

Q.1 (b) Find mean and standard deviation for the following data 7
X: 1 2 4 6 8 9

Q.2 (a) Prove that $P(A \cap B) = P(A) \times P(B)$ 8

Q.2 (b) What is the probability to get 5 Sundays in December 2052 7

OR

Q.2 (a) In a group there are 7 girls and certain boys. Probability of selecting two girls from the group is $7/15$. Find the number of boys in the group. 8

Q.2 (b) Give definitions of probability and show that $P(A) + P(A') = 1$ 7

Q.3 (a) For normal distribution $Q_1 = 8$, $Q_3 = 22$, compute mean, mode, median and standard deviation 8

Q.3 (b) The mean of a Poisson distribution is 3. Find its standard deviation and variance. 7

OR

Q.3 (a) Give p. d. f and properties of binomial and normal distributions of probability. 8

Q.3 (b) For a binomial variable $n = 10$ and $P(5) = 2P(4)$ find the value of 'p'. 7

Q.4 (a) Explain the principles of Statistical Quality Control (SQC) 8

Q.4 (b) Write control limits for (i) charts for variables and (ii) charts for attributes. 7

OR

Q.4 (a) Draw 'c' chart and give your findings for the following data: 8
Number Of defectives: 12 20 16 15 08 14 13 13 15 10 10 10 18 08 10

Q.4 (b) Distinguish charts for variables from charts for attributes. 7

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