

Name:
Enrolment No:



UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM & ENERGY STUDIES

End Semester Examination (Online) – July, 2020

Program: BBA(Core/FT/LM/T&HM)
Subject/Course: Business Statistics
Course Code: DSQT1004

Semester : II
Max. Marks: 100
Duration : 3 Hours

IMPORTANT INSTRUCTIONS

1. The student must write his/her name and enrolment no. in the space designated above.
2. The questions have to be answered in this MS Word document.
3. After attempting the questions in this document, the student has to upload this MS Word document on Blackboard.
4. Answer any **five** questions.

| | | Marks | COs |
|-----|---|--------------|------------|
| Q.1 | Write down the functions of statistics. How quantitative variable is different from qualitative variable? Justify with example. | 20 | 1 |
| Q.2 | How correlation is different from regression? Explain with examples. | 20 | 2 |
| Q.3 | Which measure of central tendency will be suitable to use in the following cases. a) Heights of the students in two classes b) Intelligence of students c) Sale of cloth with size 38”,39” and 40” d) Average sales for various years d) Per capita income in several states | 20 | 3 |
| Q.4 | A random sample of customers in a bank is considered and the waiting time (in minutes) of these customers are as follows: 3.5, 2, 7, 14 , 6, 9, 3.1, 4, 11, 15, 10, 12, 20, 16, 18, 16, 17, 14, 15, 15, 7, 6, 9, 22, 18, 19, 22, 24, 18, 11.5, 12, 17, 19, 3, 8, 7, 21, 17, 18, 16, 14, 12, 16, 18, 14, 7,16.2 , 20, 22, 10.2 Construct discrete frequency and relative frequency distribution. | 20 | 3 |

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|-----|--|----|---|
| Q.5 | <p>In a throw of two dice, what is the probability of getting</p> <p>i. The sum of numbers on both the dice to be 7 or 11.</p> <p>ii. The total of numbers on both the dice to be more than 10.</p> | 20 | 3 |
| Q.6 | <p>From the data given below showing the wages in a factory, determine</p> <p>a. the mean wage</p> <p>b. the median wage</p> <p>c. the modal wage</p> <p>5,20,23,45,123,8,2,15,74,19,110,26,5,12,20,23,68,29,25,1,14,110,79,85,92,95, 62,40,45,23,29,35,7,14,24,19,33,34,36,40,82,72,83,107,114,93,84,65,77,92, 80,24,62,72,49,62,58,60,74</p> | 20 | 4 |

ANSWERS