Roll No. SAP ID



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, July 2020 Open Book – Through Blackboard Learning Management System

Course: Quantitative Techniques for Decision Making

Course code: CLNL1005

Programme: B.Sc LLB (Hons.), 2019 Semester: II

Time: 03 hrs. Max. Marks: 100

Instructions:

As this examination is in open-book format, the students are expected to demonstrate a very high degree of Academic Integrity and not copy contents from resources referred. Instructors would look for understanding of the concept by the students and any similarity found from resources online/ offline shall be penalized in terms of deduction of marks and even cancellation of paper in requisite cases. The online examination committee of the School would also look for similarity of two answer scripts and if answer scripts of two or more students are found similar, both the answer scripts shall be treated as copied and lead to cancellation of the paper. In view of the aforesaid points, the students are warned that they should desist from using any unfair means.

All Questions are Compulsory Answer each question

S. No.		Marks	CO
1	I. Define a) Event space b) Exhaustive set of events II. Define probability theorem of addition. III. Define coefficient of range and coefficient of Quartile deviation of a data. IV. Define index number.	4×5 =20	CO1
2	 I. The odds that A speaks the truth is 4:3 and the odds that B speaks the truth is 6:5. In what percentage of cases are they likely to contradict each other on an identical point? II. Suppose that there is a chance for a newly constructed house to collapse whether the design is faulty or not. The chance that the design is faulty is 10%. The chance that the house collapses if the design is faculty is 95% and otherwise it is 45%. It is seen that a house collapsed. What is the probability that it is due to faulty design? 	2×10= 20	CO2
3	Based on the frequency distribution given below, compute the following statistical measures to characterize the distribution: i) Standard deviation, ii) Coefficient of variation, iii) Variance	20	CO3

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I,, understand that submitting work that isn't my own may result in failure in this paper and I may also be subject to Disciplinary Proceedings as per the Academic Integrity policy of the University.

