Name: Enrolment No:

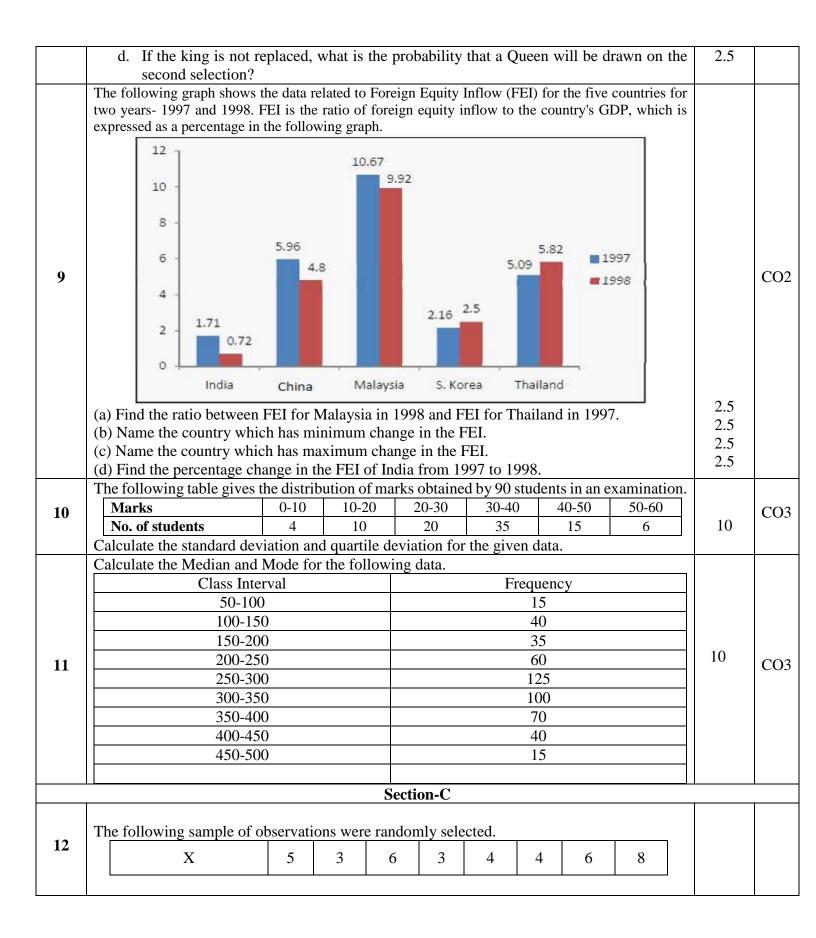


UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM & ENERGY STUDIES End Semester Examination (Online) – May/June, 2021

Program: BBA AVM Subject/Course: Business Statistics Course Code: DSQT 1004 Semester:II Max. Marks: 100 Duration: 3 Hours

	Section-A								
Q.No	Question								
1.	The shoe sizes of 9 soldiers selected in a team are 8, 6, 5, 3, 5, 3, 4, 5, 5. Comment on the Skewness of the distribution of shoe sizes.								
2.	Give one real life example of a situation in which the mean is not an appropriate measure of central tendency but the mode is an appropriate measure of central tendency.								
3	A Computer password consists of four characters. The characters can be one of the 26 letters of the alphabet. Each character may be used more than once. How many different password are possible?								
4	 Which of the following statement is suited for the coefficient of variation? (a) A measure of central tendency (b) A measure of variation used when two samples have different units (c) The squared value of the standard deviation (d) To predict the value of dependent variable for given value of independent variable 								
5	If a statistics professor tells his class: "All those who got 80 on the statistics test got 20 on the mathematics test, and all those that got 80 on the mathematics test got 20 on the statistics test", he is saying that the correlation between the statistics test and the mathematics test is: (a) Negative (b) Positive (c) Uncorrelated (d) Can not answer								
6	If $b_{XY} = 0.9$ and $b_{YX} = 0.4$ then the value of correlation coefficient will be	5	CO4						
	Section-B								
7	Discuss the difference between Skewness and Kurtosis. Also discuss its different types.	10	CO1						
8	The first card selected from a standard 52- card deck is a king.a. If it is returned to the deck, what is the probability that a king will be drawn on the second selection?b. If the king is not replaced, what is the probability that a king will be drawn on the second selection?	2.5 2.5	CO2						
	c. What is the probability that a king will be selected on the first draw from the deck and another king on the second draw (assuming that the first king was not replaced)?	2.5							



Y	13	15	7	12	13	11	9	5			
(a) Determine the two lines of regression equation.(b) The coefficient of correlation between the X and Yand interpret your result.(c) Estimate the value of Y when X is 7.									10 6 4	CO4	