Name:	UPES
Enrolment No:	U UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Term Examination, May 2021

Course: Business Statistics

Programme: BBA(LM)

Semester: II

Time: 03 hrs

Max. Marks: 100 Course Code: DSQT1004

SECTION A

Each Question will carry 5 Marks

S. No.		Marks	CO
	Select the most appropriate	(5x6)	
Q 1.	The probability of certain event is		CO1
	a) 0		
	b) always 1		
	c) near to 1		
	d) can't determined		
Q 2.	The complete idea of about distribution of data requires the following(s):		CO1
	a) Measures of central tendency and Dispersion		
	b) Sknew ness		
	c)Kurtosis		
	d)All the above		
Q 3.	Which of the following(s) is a bar diagram		CO1
	a) Deviation bar		
	b) Percentage bar		
	c)Subdivided bar		
	d) All of the above		

Q 4.	Which meas	ures o	f centra	al tender	cy is use	d to anal	yze nomi	inal data			
	a) Mode										CO1
	b)Median										
	c) Mean										
	d)Geometric	mean									
Q 5.	The histogra	m is a	n effect	tive grap	ohical tecl	hnique u	sed to ex	plain			CO1
	a) Skew ness										
	b) Mean										
	c) Kurtosis										
	d) Both a and c										
Q 6.	Two variable	es are	said to	be inder	oendent i	ſ					CO1
	Two variables are said to be independent if a) $r=0$										
	b) $r = +1$										
	c) r= -1										
	d) $r = +0.5$										
					SEC	TION B					
	Each question	n will	carry 1	10 mark	<u> </u>					(10x5)	
0.7							1		:C 41		
Q 7.	In how many ways can 4 red, 3 yellow and 2 green discs be arranged in a row if the discs of the same color are indistinguishable?										CO2
Q 8.	As part of manpower planning exercise at Maersk the following data is collected on units of output and manpower usage per week for a product during the year 2020.										
	Output	60	48	35	30	55	40	80	70		
	Man hrs used	650	450	250	500	550	380	750	700		CO2
	Calculate the	correl	ation be	tween o	utput and	manpowe	er used.				

Q 9.	Calculate median rent for the following data:														
	Monthly Rent	1500- 2000	2000- 2500	2500- 3000	3000- 3500	3500 4000		4500- 5000	5000- 5500						
	No. of families paying the rent	17	40	27	75	15	20	6	16		CO2				
Q 10.	Draw a percentage bar diagram for the following data:														
	Expenditure(in I	Con	npany A			Company	B								
	Wages	400				650									
	Materials		250				550				CO3				
	Power	175				350				003					
	Maintenance	Taintenance 180 175													
	Profit		195				275								
	Speed(Miles per 45-49 50-54 5-59 60-64 65-69 70-74 75-79 What is the varian				avelling		NH-11?				CO3				
				S	ECTIO	N-C									
	Each Question c	arries 20) Mark	5						(20x1)					
Q 12.	The relation between price and demand of a comodite is as follows:														
	Demand (in unit	s) 10	8	5 4	4 2	. 1									
	Price(in Rs)	4	6	5 6	5 8	9					CO4				
	Find both lines of regression. And also find price when demand is 3 unit.														