Name:	
Enrolment No:	



UNIVERSITY OF PETROLEUM & ENERGY STUDIES End Semester Examination – MAY 2022

Program:BBA -ABD-IV

Semester:IV

Subject/Course: ADVANCED STATISTICS
Course Code: DSQT2004

Max. Marks: 100
Duration: 3 Hours

Q.No	Section A(multiple choice question)	Marks	COs
Q1.	i) Which of the following are types of correlation?	2* 10=20	CO1
	a. Positive and Negative		
	b. Simple, Partial and Multiple		
	c. Linear and Nonlinear		
	d. All of the above		
	ii)If the values of two variables move in the same direction,		
	a. The correlation is said to be non-linear		
	b. The correlation is said to be linear		
	c. The correlation is said to be negative		
	d. The correlation is said to be positive		
	iii) In a Binomial Distribution, if p, q and n are probability of success, failure and number of trials respectively then variance is given by		
	a. np		
	b. npq		
	c. np ² q		
	d. npq ²		
	iv) Binomial Distribution is a		
	a. Continuous distribution		
	b. Discrete distribution		
	c. Irregular distribution		
	d. Not a Probability distribution		
	v) Of the following sampling methods, which is a probability method?		
	a. Judgement		
	b. Quota		

		c. Simple r							
		d. Convenie		og the fell	ovvina offo	at unan tha	lin a		
	error?	sing the sa	ilipie size i	ias the folio	owing ene	ct upon the	samping		
		.	.4	4.					
		a. It increas							
		o. It reduces			r orror				
		e. It has no . All of the		ie sampiing	3 61101				
	u	. Mii oi uic	above						
	vii) The w	eights used	l in a quan	tity index a	re	·			
		a. Quant	ity						
	viii) Fishe	r's method	of calcula	ting the ind	ex numbe	r is based o	n the		
	·	- 2		8		2 - 2 - 2 - 2 - 2			
	o Go	eometric me	oon						
		ithmetic m							
	c. Ha								
	d. No								
	ix) Sample	e is regarde	ed as a subs	set of?					
		a. Data							
		b. Set							
		c. Distribu							
	\ TD1 1:0	d. Populat			,	. 11 1			
	x) The dif	ference bet	ween a sta	tistic and th	ie paramet	er is called	•		
		a. Non-ran							
		b. Probabi							
		c. Samplind. Random							
		u. Kandon	1						
02				D				5*4 20	002
Q2.				tion: B				5*4=20	CO2
		te the spear							
	X	10	8	12	15	8	10		
	У	9	8	9	6	9	8		

e GMA	AT exa		ls of bu	isiness								
ributed		minati	iii) Most graduate schools of business require application for admission to									
	with a	take GMAT examinations. Scores on GMAT are roughly norm										
oability	distributed with a mean of 527 and standard deviation of 112. What is the											
probability of an individual scoring above 500 on the GMAT?												
			2									
iberea	1 10 10.	1 mg t				.c suii	1 01 po	iiis oii t	vo caras.			
i) The chain base index numbers for sales of a certain type of scooter from												
the year 2010 to 2015 are as follows. Find fixed base index numbers.												
ar	2010	20)11	2012		2013	2	014	2015			
Index 110		11	112			108		05	111			
of												
e												
		1						1		10*3=30	CO	
		22						+		10 3 30		
	he cha year 20 ar dex of	he chain base year 2010 to 20 ar 2010 dex of	the chain base index a sear 2010 to 2015 are ar 2010 20 20 20 20 20 20 20 20 20 20 20 20 20	the chain base index number year 2010 to 2015 are as follows: 2010	the chain base index numbers for sayear 2010 to 2015 are as follows. For ar 2010 2011 2012 dex 110 112 109 of e	the chain base index numbers for sales of year 2010 to 2015 are as follows. Find find the equation of straight line, we have a substitution of the last of the las	the chain base index numbers for sales of a cereate year 2010 to 2015 are as follows. Find fixed bear 2010 2011 2012 2013 dex 110 112 109 108 of the chain base index numbers for sales of a cereate year 2010 to 2015 are as follows. Find fixed bear 2010 2011 2012 2013 dex 110 112 109 108 of the chain base index numbers for sales of a cereate year 2010 to 2015 are as follows. 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Q4.	commodity		ır (201			Current year 2019		15*2=30	CO4
Q4.		price		quantity	price	quantity		13 2-30	004
	A	20		8	40	6			
	В	50	10	10	60	5			
	С	40		15	50	15			
	D	20		20	20	25			
		,	'		'				