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**Enrolment No:** 



## UNIVERSITY OF PETROLEUM & ENERGY STUDIES DEHRADUN

End Term Examination – May, 2019

Program/course:BBA(LM) Subject: Business Statistics

Code : DSQT1004 No. of page/s:05 Semester – II

Max. Marks : 100 Duration : 3 Hrs

### **SECTION A**

## Attempt all questions

1.	Select correct answer	Marks	CO
	(i) Descriptive statistics consists of the following(s):		
	a)Collection of data		
	b) Presentation of data	2	CO1
	c)Description of sample data		
	d) All the above		
	(ii) A descriptive measure of a sample is called		
	a) Parameter		
	b)Statistics	2	CO2
	c)Population		
	d) Sampling		
	(iii) Which measures of central tendency is used to analyze nominal data		
	a) Mode		
	b)Median	2	CO1
	c) Mean		
	d)Geometric mean		

(iv) The complete idea of about distribution of data requires the following(s):		
a) Measures of central tendency and Dispersion		
b) Sknew ness	2	CO2
c)Kurtosis		
d)All the above		
(v) Two variables are said to be independent if		
a) r= 0		
b) r= +1	2	CO3
c) r= -1		
d) $r = +0.5$		
(vi) The histogram is an effective graphical technique used to explain		
a) Skew ness	2	CO1
b) Mean		
c) Kurtosis		
d) Both a and c		
(vii) Which of the following(s) is a bar diagram  a) Deviation bar		
b) Percentage bar	2	CO1
c)Subdivided bar		
d) Multiple bar		
(viii) The probability of certain event is		
a) o		
b) always 1	2	CO4
c) near to 1		
d) can't determined		
(ix) Mean deviation is least from		
a) Mean		
b) Mode	2	CO1
c) Median		
d) All the above		
(x) Deviation bar diagrams is used for representing		
a) Net profit	2	CO1
b) Net Loss		
c) Net excess or deficit		

	d) All the above						
			SECTIO	ON B		L	
		(At	tempt any F	Five questions)			
2.	In a throw of two dice, wh	at is the probab	ility of getti	ng			
	(i) the sum of numbers on	both the dice to	be 7 or 11.			6	CO4
	(ii) the total of numbers or	n both the dice t	o be more th	an 10.			
3.	In a class of 50 students secured by the entire class					s 6	CO4
4.	A college dean is interested 65 students. Define the following a) Population b) Sample c) Variable	6	CO2				
5.	Prices of product 20 A (Rs)  Prices of product 10 B (Rs)	22 20	19	23	16	6	CO4
6.	Draw a percentage bar dia  Expenditure  Wages  Materials  Power  Maintenance	Company 450 200 75 80		700 500 350 175	500 350		CO2
	Profit  Total	195 1000		275		_	

				Rainfa	ll(in cm)		Produ	ction (toni	nes)		
	Mean			35			50			6	CO3
	Standard dev	riation		5			8			-	
	Coefficient of	correla	ntion is 0	0.8.			<b>.</b>				
					SEC	TION-C					
					(Answ	er any Fi	ve questi	ons)			
	As part of ma									f	
	Output	60	48	35	30	55	40	80	70		
	Man hrs	650	450	250	500	550	380	750	700	10	CO3
	(ii) Fa	passed ne prob assed in ailed in	in Stati ability the both suboth suboth	stics, and nat the stubjects	8 failed in dent.				_		CO4
).	Economics ,7 random,find the (i) Pa (ii) Fa (iii) Fa	passed ne prob assed in ailed in	in Stati ability the both suboth suboth suboth	stics, and nat the stu bjects bjects nics or Sta	8 failed in dent.	n both sub	ojects.If or	ne student	is selected a	t	CO4
<u> </u>	Economics ,7 random,find the (i) Pa (ii) Fa	passed ne prob assed in ailed in	in Stati ability the both suboth suboth suboth	stics, and nat the stu bjects bjects nics or Sta	8 failed in dent.	n both sub	ojects.If or	ne student	is selected a	t	CO <sub>2</sub>

	y 2.4	3	3.6	4	5	6		
	Find the both regress	sion lines.						
12.	The joint council of following table gives 41,13,42,74,29,99,73 15,14,17,15,54,17,50 (i) Draw relative free (ii) For the above dathan ogive and more	s the number of 3,49,12,76,90,0,11,32,17,93, quency and penta prepare a	of questions and 9,72,9,6,66,29, 92,16,7,30,9,19 ercentage freque	swered correct 41,28,37,65,3 9,17,71,19,43, ency distribution	tly. 34,14,63,79,76 ,76,50,51,25,2 ion table.	5,77,18,36,13,17, 28,19,18,11,62,8	10	CO2
13.	The following table mode of wage. If the suggest an appropriation weekly wages(Rs)	e managemer	nt of the factor	y wants to fix	•			CO2

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### **SECTION A**

### Attempt all questions

1.	Select correct answer	Marks	CO
	(i) Descriptive statistics consists of the following(s):		
	a)Collection of data		
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	d) All the above		
	(ii) A descriptive measure of a pooulation is called		
	a) Parameter		
	b)Statistic	2	CO2
	c)Population		
	d) Sampling		
	(iii) Which measures of central tendency is used to analyze ordinal data		
	a) Mode		
	b)Median	2	CO1
	c) Mean		
	d)Geometric mean		
	(iv) The complete idea of about distribution of data requires the following(s):	2	CO2
	a) Measures of central tendency and Dispersion	2	CO2

b) Sknew ness		
c)Kurtosis		
d)All the above		
(v) Two variables are said to be uncorrelated if		
a) $r = 0$		
b) r= +1	2	CO3
c) r= -1		
d) $r = +0.5$		
(vi) The histogram is an effective graphical technique used to explain		
a) Skew ness	2	CO1
b) Mean c) Kurtosis		
d) Both a and c		
(vii) Which of the following(s) is not a bar diagram		
a) Deviation bar		
b) Percentage bar	2	CO1
c)Subdivided bar		
d) pie chart		
(viii) The probability of uncertain event is		
a) o		
b) always 1	2	CO4
c) near to 1		
d) can't determined		
(ix) Mean deviation is least from		
a) Mean		
b) Mode	2	CO1
c) Median		
d) None		
(x) Deviation bar diagrams is used for representing		
a) Net profit		
b) Net Loss	2	CO1
c) Net excess or deficit		
d) All the above		

						SECTIO	ON B						
					( Atten	npt any F	ive que	stio	ns)				
2.	A bag contains	5 7 red, 3	3 white	and 6 b	blue bal	ls. What i	is the pr	obał	oility tha	t three ball	s drawn	6	CO4
	are red, white	and blue	?										
3.	In a class of	50 stude	ents, 10	) have	failed a	and their	average	ma	arks is 2	5.The tota	l marks	(	CO4
	secured by the	entire c	lass is 2	2810. Fi	ind the a	average m	narks of	thos	se who h	ave passed		6	CO4
4.	A college dean selected 100 st				•		0 0			udents and			
	a) Variable											6	CO2
	b) Sample											v	002
	c) Variable												
5.	The following to represent the		salaries	s of 200	) emplo	yees. Dra	nw a his	togr	am and	frequency	polygon		
	Salaries	6000-	9000			15000-	18000-	-	21000-			6	CO4
	No. of employees	9000	35	$\frac{0}{40}$	0000	18000 45	33		24000 17	200			
6.	Draw a percen	tage har	diagrai	n for th	ne follov	vino data							
	Expenditure				pany A			Co	mpany I	3			
	Wages			400	1 3			650					
	Materials			250				550	0				G0.4
	Power			75				350				6	CO2
	Maintenance			80				17:	5				
	Profit			195				27:	5				
	Total			1000	)			200	00				
7.	Calculate mode	e for the	follow	ing data	a:			<u> </u>					
	Monthly Ren			2000- 2500	2500- 3000	3000-3500	3500 4000		4000- 4500	4500- 5000	Total		
	No. of fami paying the res	lies 17		40	75	27	15	,	20	6	200	6	CO3
						SECTIO	N-C						
					(A	Answer a	ny Five	que	estions)				

	Income	1	2	3	4	5	6	7	8	9	10	CO
	Expenditure		11	13	15	14	17	16	19	18		
			1	10	120	1	1 - 7	120	127	120		
	(ii) F	passed he prob assed i	d in Spability  n both  n both	tatistics y that the subject subject	, and 8 fa ne student ts	ailed in b					10	CO4
).	Let us consid	er the g	rades	(X) of 1	20 studer	nts in thre	e differe	nt subject	s A,B an	d C.		
	X 1 2 3 4		A 6 7 12 20	2		B 8 15 29			C 3 7 10 16			
	5 6 7 8 9		30 20 12 7 6	)		16 12 8 8 5			25 29 20 6 4		10	СО
	Find skew ne	ss in ea	ch cas	se?								
.•	The following	g data c	orresp	oonds to	o income(	x) and ov	verheads(	y)				
	X	1		2	3		4	6		8		
	Y	2.4		3	3.6	<u> </u>	4	5		6		
	Find the line	of regre	ession	of Y or	n X and X	Con Y.					 10	CO
	Time the line											

13.	The following table s mode of wage. If the suggest an appropriate	management	of the factory	wants to fix	•		10	CO2
	Weekly wages(Rs)	0-100	100-200	200-300	300-400	400-500	10	CO2
	No. of employess	14	25	27	24	15		