2016.04.07

De Mazenod College, Kandana Business Statistics I

2nd Term test - (April 2016)

Grade 12

01 $\frac{1}{2}$ hours

Inswer	all	q	ues	tic	ns

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. wnic	i or me	TOHO	2HIW	statements	15	uucı

- 1) One of the main advantages of mailed questionnaire method is that it ensures a high response rate.
- 2) In general personal interview method is cheaper than the self enumeration method.
- 3) There is no difference between questionnaire and a schedule.
- 4) Statistical conclusions are not always exact as mathematical conclusions.
- 5) Data taken from an annual report of an institution is considered as primary data.

2. Which of the following statements is not true?

- 1) Data obtained in a sample survey are termed as primary data.
- 2) Data taken from an annual report of a company is considered as secondary data.
- 3) In general, personal interview method gives high response rate than postal questionnaire method.
- 4) Even if the respondents are illiterate, the postal questionnaire method can be widely used.
- 5) A schedule is used to collect data in personal interviews.
- 3. Which of the following statements is true?
 - 1) A schedule is a form containing a set of questions filled out by a respondent.
 - 2) The personal interview method is an appropriate method for collection of data when high response rate is expected.
 - 3) Checking of errors on a questionnaire using a pilot survey is called editing.
 - 4) Mail questionnaire method of enquiry is most appropriate for rural areas compared to urban areas.
 - 5) If the returned questionnaire is incomplete, then the questionnaire of that respondent should be ignored.
- 4. The width of a class interval is calculated as
 - 1) The sum of the upper and lower boundaries
 - 2) Half of the sum of the upper and lower boundaries
 - 3) Half of the sum of the upper and lower limits
 - 4) The difference between upper and lower limits
 - 5) The difference between upper and lower boundaries.
- In order to compare annual imports cost and exports income for the last 10 years, the most appropriate diagram would be
 - 1) Simple bar chart

4) Profile chart

2) Component bar chart

5) Z chart

3) Pie chart

- 5. The most appropriate way of displaying monthly sales revenue and monthly cost of sales of a company for last 3 years is a
 - 1) Simple bar chart

4) Multiple bar chart

2) Z chart

5) Line graph

- 3) Component bar chart
- 7. The average mark of girls and boys in a class of Business statistics is 59. If the average marks of boys is 65 and that of girls is 50 the percentages of boys and girls respectively in the class are
 - 1) 60 and 40
 - 2) 55 and 45
 - 3) 70 and 30
 - 4) 50 and 50
 - 5) 45 and 55

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*						
	mir	nutes for the same. Both ar	ts are employed. e asked to type f	Typist A type or one hour. V	s on Vhat	e page in ten minutes while typists B take twenty is the average time taken by them for typing one
	pag	ge?			4)	15 minutes
		6 minutes and 40 seconds 13 minutes and 20 seconds				18 minutes
		14 minutes and 10 second				
. !!						
		A consumer affairs agency	wants to check	the weight of	a ne	w product. A random sample of 25 items of the
roc	luct	was taken and the weights	in grams were r	ecorded as fol	lows	
		Weight	Number			
		74 - 77	3			
		77 - 80	6			
		80 - 83	9			
		83 – 86	3			
		86 – 89	4	luot is		
		The third quartile of the v	veignt of the proc	idel is	4)	83.75
	3	18.75			The second second	84.50
	,	75.00			,	
	3)	83.00				
10.		Which one of the followi	ng measures is u	naffected by o	outlie	ers?
IV.	1)	Mean			4)	Absolute deviation
	2)	Standard deviation			5)	Interquartile range
	3)	Range				
48	10000					
11.	S	uppose a frequency distrib	ution is skewed	with a median	75 a	and mode 80. Which of the following is a possible
	V	alue for the mean of the di	stribution?			
	1)	70				80
		75			رد	91
	3)	78				
		Maria Cal - Callering	statements are/is	true?		
12	Б	If the mean salary of se	m each observat	ion of a data s perators of a g	arme	hen the variance of that data set is reduced by 9. ent factory is Rs. 600 per day and the standard
	d		30 the an the coat	traignt at varie	ation	18 71170
		C – If the coefficient of	variation of data	set A is large	r tna	n that of data set b then that set it is more consistent
	1)	A only				A and B only B and C only
	2)	1. (18 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			٦,) Balld Comy
	3)	C only				
13			tudents enrolled	in a Business	Stati	stics course were recorded in ascending order as
		ollows	1, 13, 15, 15, 15,	17, 17, 19, 19	, 20	
		4, 7, 7, 7, 10, 1 After calculating the mean	median and mo	de an error is	disco	overed. One of the values of 15 is really a 17. The
	n	neasure(s) of central tender	nev which will cl	nange is /are		
	1) The mean				
	2					
	3					
	4					
	5	The mean, median and	l mode.			
1	4.	The output of a machin	ie over a period o	of seven days	ıs gı	ven below.
		Day	1 2	3 4) D /
		Output	107 110	103 107		
		The mean and mean al	osolute deviation	for the above	uata	4) 108 and 1.857
		1) 106 and 1.56				5) 108 and 1.92
		2) 107 and 2.0	1 197			5) 100 mm 112 m
		3) 106 and 1.714				

15.	co	scientist is weighting each of 30 fish. She obtained a me impleting the weighting she finds that scale was wrong, a ean and standard deviation after correcting the error in the	and al	Iways under reported every weight by 2 g. What is the
		28 and 2		32 and 4
	2)	30 and 4	5)	28 and 4
	3)	32 and 2		
16.		ne sum of 10 observations is 150. The sum of squares of earson's coefficient of skewness is	these	e observations are 2500 and the median is 14. The
	1)	0.6	4)	-0.6
	-	0.2	5)	1
	200	-0.2		
17.		If $Q_3 - Q_2 = 1/2 (Q_2 - Q_1)$ of a certain distribution, that	distri	ibution is
		Right skewed	4)	Leptokurtic
		Left skewed		Mesokurtic.
		Symmetrical		
18.		Which of the following statements is true about box an	ıd wh	isker diagram?
	Α-	- The longer whisker to the left and longer box indicate	that t	he distribution is positively skewed.
	В-	The length of the box is equal to the interquartile range	e	
	C-	 For a normal distribution the length of the left box and whisker. 	left v	whisker are equal to the length of right box and right
		1) C only		4) B and C only
		2) A and B only		5) A, B, and C
		3) A and C only		3) 11, D, and C
		3) A and Comy		
10	Tri.		and	15 :-
19.		e harmonic mean of 5 sample observations 4, 20, 12, 10		
		7.09		9.92
		8.09	5)	10.02
	3)	9.09		
20.		Coefficients of variation of two series are 75 and 90 with wo series are	stand	lard deviations 15 and 18 respectively. The means of
	1)	5 and 5	4)	20 and 10
	2)	: BESKING BESKE IN - EN EE EEN EEN EEN EEN EEN EEN EEN EE		20 and 20
	3)	우리 선생님들이 없는 것들이 그 그들은 그 가장에 마시고 있는 그리는 그리는 그리는 그리고 있다면 하는데 아름다고 있다.		
21	Th	ne geometric mean of 4,8 and 16 is		
		6.86	4)	9.33
	2)		5)	22.63
	3)			
22	. Fo	or the given set of observations 7, 8, 9, 9 and 17		
	1)	Mean is greater than median	4)	Median is greater than mode
	2)	Mode is greater than mean	5)	Median is greater than mean.
	3)			
23	*	Which of the following statements are/is true about the	ie ske	wness?
		A - In a positively skewed distribution, mean <median< td=""><td></td><td></td></median<>		
		B - The median does not always lie between the mean		
		C - Bowley's measure of skewness is based on quar		
	1	그는 아들들이 제공에 가면 하는 것으로 맛을 하는데 하는데 하는데 되는데 되었다. 그런데 아들이 나를 다 먹었다.	4	A and B only
15	2	## COLUMN HOLD ## ## ## ## ## ## ## ## ## ## ## ## ##) B and C only
	3	'' (CONTROL OF CONTROL OF CONTRO		
	0	, Comj		

		If the coefficient of variation of the data set A is larger than the is/are true?	at	of data set B, which of the following statements
		P – The data set A is more consistent		
		Q – The data set A is less consistent.		
		R – The distribution of A is skewed than the distribution of		1988년 - Paris Harrier Harris
	1)			P and Q only
	2002	54 - C.N. (2007–100 to 100 pt 1 12 pt 1 2 pt 1 2 pt 1 2 pt 1 pt 1)	Q and R only
	3)	B) R only		
25,		Which of the following statement/s is/are true about weight	tec	a mean?
		A – Weighted mean is used to represent a distribution if some	e i	tiems in the distribution are more important than
	- O	others B - Weighted mean gives the result equal to the arithmetic me	201	n if the weights assigned to all the items are equal
		C - The mean of a frequency distribution can be regarded a	as	a weighted mean with relative frequencies as weights
				B and C only A, B and C
			,	A, B and C
	3)	3) A and C only		
26.		For a population of size 9, the following summations were $\sum X = 450 \qquad \sum (X - \overline{X})^2 = 324$	ca	alculated.
		The coefficient of variation of X is		
	1)	1) 1.2%)	83.3%
	2)	2) 12%)	833.33%
	3)	3) 138.8%		
27.		In regression analysis, the method of least squares		
	200	1) Maximizes the value of coefficient of determination		
		2) Minimizes the error sum of squares		
		3) Maximizes the error sum of squares		
		4) Minimizes the total variation in dependent variable.		
	5)	5) Minimizes the sum of errors		
28	. II	If $U = Y - 64$ and $V = X/2$, then the regression equation of U equation for the original variables of Y on X?	0	n V is $U = -34 + V$. What would be the regression
			()	Y = -98 + 1/2X
				Y = 98 + 2X
		3) $Y = 30 + 1/2X$,	
	-,			
29		Which of the following statements is not true regarding the	e	coefficient of correlation?
	1)	1) It can range from -1 to +1		
	2)	2) Its square is the coefficient of determination		
	3)	3) It measures the percentage of total variation of the depend		
	4)	4) It is a measure of strength of the linear association betwee	n	two variables.
	5)	5) The coefficient of correlation is a value that is independent	nt (of the units of measurements.
30			3	
	1	1) Total of the squares of horizontal deviations from regressi	101	n line.
		2) Total of the squares of vertical deviations from regression	1 11	ine.
		3) Total of the squares of absolute vertical deviations from re-	eg -	ression line.
	. 4	4) Total of the absolute horizontal deviations from regressio		
	3	5) Both total of vertical and horizontal deviations from regre	753	SION TINE.
3			ha	s been fitted as $\hat{y} = 33.7 + 0.52 \text{ x}$. In this equation,
	1	 Y is the son's height when father's height is x. Y is the estimate of the mean of son's height when father 	, 0	height is x
		 2) Y is the estimate of the mean of son's height when father 3) Y is the mean of the son's height when father's height is 	X	neight is A.
٠.		4) Son's height is 33.7 when x is equal to the mean of the fa	a. th	er's height
		5) The positive regression coefficient 0.52 indicates that tall	f	athers tend to have taller sons than fathers.
)	7) The positive regression coefficient 0.52 materials that tan	- 41	The state of the s

THE					Bisle,
4.	1) 2)	A regression equation was calculated to be $\hat{Y}=25+6X$. The An increase in one unit of X will result in increase of 25 un. There is a strong relationship between X and Y. 25% of the variation in Y is explained by regression.	ne va	ulue 25 indicates that in Y.	
	4)	The regression line crosses the Y axis at 25. The regression line crosses the X axis at 25.			
33.		pose the correlation coefficient between two linearly relate clusions is correct.	ed va	ariables, X and Y is -0.95. W	hich of the following
	1)	The linear relation between X and Y is weak, and Y decre The linear relation between X and Y is strong, and Y decr The linear relation between X and Y is strong, and Y incre	ease	s when X increases.	
	4)	The linear relation between X and Y is strong, and Y incre There is no linear relation between X and Y since the corr There is no linear relation between X and Y since the corr	ases	when X increases.	
34.	1)	For the probability of an event all the persons get the sam Relative frequency approach to probability	e ans	swer as the correct answer. T	his is possible under
	2) 3) 4) 5)	Classical approach to probability Subjective approach to probability Both classical and relative frequency approach to probabil Both classical and subjective approach to probability	ility		
35		Which of the following statements is/are true about the ap A – The classical approach cannot be applied if the possi	pproa ble o	aches of probability. butcomes of the random expe	riment are not equally
		likely B – One of the limitations of the relative frequency appro	ach	is that the experimental cond	litions may change
		C - The axiomatic approach is not concerned with calcul	ation	n of the probability of events. B and C only	
*	2	A only A and B only A and C only		All A, B and C	
36	pı	he probability that both events A and B occur, The probab robability that event B occurs and event A does not occur a yents A or B occurs is	ility are a	that event A occurs and even ll equal to p. The probability	t B does not occur, and that at least one of the
	1)		4)	3p	
	2) 3)	이 이렇게 이 맛있다면 가지를 보면 살아가면 하는 것들이 가지 않는데 얼마를 하는데 되었다면 어떻게 되었다면 맛있다면 하는데 이번 없다.	5)		
37 tr	7. ne?	If A and B are any two events such that $P(A/B) = P(B/A)$), P(A) \neq 0, P(B) \neq 0which of the	following statements is
		$P(A \cap B) = P(A)$ $P(A \cap B) = P(B)$ $P(A \cap B) = 0$			
		P(A) = P(B)			
3	8. 1)	If $P(A \cap B) = 1/2$, $P(A' \cap B') = 1/3$ and $P(A) = P(B) = p$ then $1/3$	4)	4/8	
	2)		5)	1/6	
3	9. 1)		4)	$P(A \cup B')$	
	3) P(A'⊅B)) P(A∨B)	5)	$P(A' \cap B) + P(A \cap B')$	
4	10. 1 2	장이를 하고 있다. 그렇게 되었다면 가장 그렇게 하는 것이 되었다면 하는 것이 되었다면 하는 것이 없는 것이 되었다면 하는 것이 되었다면 하는 것이 없다면 하는데 없다면 하는데 없다면 하는데 없다면 다른데 없다면 하는데 없다면	P(A & 5)	JB)=3/4, then P(A/B) is 1/8	
	4				

34.

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De Mazenod College, Kandana

Business Statistics II

2nd Term test (April 2016)

Grade 12

 $\frac{1}{2}$ hours

Answer three questions only.

1. (a) Explain the difference between primary data and secondary data. What are the factors that should be considered when using primary data?

(04 marks)

(b) Explain, Personal interview method.

Mention examples for two practical situations where personal interview method can be used for data collection

(04 marks)

(c) Explain the difference between pre testing and editing.

Mention the function of pre testing and editing in data collection.

(04 marks)

(d) Marks obtained by 35 students for a term test are given below.

47	58	79	54	81	38	61	87	53
21	84	72	67	57	43	91 -	59	66
65	70	44	73	40	67	34	16	. 29
75	47	60	52	63	86	68	53	

Present these data in a Stem and leaf diagram and draw a box and whisker diagram. Mention your ideas about the (06 marks)

nature of the distribution.

(e) Explain the importance of Z Curve in presenting business data.

(02 marks)

2. (a) Mention the merits and demerits of mean as a measure of central tendency.

Mention the situations where it is appropriate to use mode and median than mean

(05 marks)

(b) Salary distribution of workers in a certain company is as follows.

Daily Salary 0-			400-600	600-800	800-1000	1000-1200
No. of employees	-	17	23	32	29	11
1101 01 1111						

Draw a less than ogive using above data. Using that ogive,

Mention maximum salary earned by 25% of employees who earn minimum salary. I.

Mention minimum salary earned by 10% of employees who earn maximum salary. (05 marks) II.

(c) Weight distribution of 50 boys (in kg) in a certain class is as follows.

I. Calculate mode, median, mean and variance of the weight distribution of boys.

II. There are 50 girls in this class. Data relating to weights of these girls are given below.

$$\sum X = 2170$$
 $\sum X^2 = 106,978$

Calculate mean and variance weight of girls.

iii. Calculate mean and variance of all students in this class.

(10 marks)

3 (a) What do you mean by weighted mean

What are the situations where weighted mean can be used practically.

(03 marks)

(b) Following are the profit percentages of a certain company during past 5 years.

16.2% 11.4% -2.8% -6.3% 8.7%

Calculate mean profit percentage of this company during last 5 years.

(04 marks)

(c) Explain the difference between absolute dispersion and relative dispersion.

(04 marks)

			entona and	oiven i	in the fo	Howing o	listribut	ion			1111
*(d) T	The life times of two models										
(0) 1	Life time		er of ref			nowing c	risu iout				
No.											
	(No. of years)	Mode	IA	Mode	B	· ·					
	0 - 4	3.		2							
	4 – 8	8		7							
	8 - 12	16		15							
	12 – 16	13		18							
	16 – 20	7		6	No.						
	20 – 24	3	A	2						A. Maria	
i. (Calculate the mean and the		evietion	for life t	ime of e	ach refri	gerator	model			
						acii icii,	geraior.	moder.			
	Which model of refrigerator					^ - k	0		(07		
m. (Out of these two models of	reirigerator	rs, which	i modei	you pre	fer to buy	y?		(07 m	arks)	
(a) Vou	are given following massu	a in a frac	h vectors	icteibuti	an.		12"				
	are given following measur					7/					
$Q_1 =$					$P_{90} =$	/0					
Calc	ulate skewness and kurtosis	s of this dis	tribution	l.						(02 ma	arks)
· (-) M.			11			C 1.1				10.4	1
	ention the importance of reg									(04 ma	
(b) Ex	plain the difference betwee	n product r	noveme	nt coeffi	icient of	correlati	on and i	ank co	efficient o		
										(04 ma	arks)
(c) Fo	llowings are the annual inc	ome and ex	penditur	re on clo	othing re	lating to	a sampl	e of 10	families.		
	ual income (X) 5	7	9	14	12	10	8	6	16	3	Maria de la como
	. 100,000)			THE REAL							
	enditure on clothing (Y) 3	4	7	9	12	6	3	3	11	2	
				7	14	U	٠	J	11	4	
(NS.	. 10,000)	57572	170	573737							
∑A-	$=90$ $\Sigma Y = 60 \Sigma X^2 = 960$	∑ Y =	478	ZXI	=660						
ii. 1 iii. 0 iv. 0	Draw a scatter diagram. Ex Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expen	by least so relation and determinat	quares m d interpretion. Wh	ethod. et it. at it tell:	s you.				e and exp	(08 m	
ii. 1 iii. 0 iv. 0 v. 1 (d) F	Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expen Ranks given by a teacher to	by least so relation and determinated diture on c	quares m d interpretion. Wh lothing v	ethod. et it. at it tells when the	s you. e annual	income i	is Rs.60	0,000		(08 m	arks)
ii. 1 iii. 0 iv. 0 v. 1 (d) F	Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expen	by least so relation and determinated diture on c	quares m d interpretion. Wh lothing v	ethod. et it. at it tells when the	s you. e annual	income i	is Rs.60	0,000		(08 m	arks)
ii.] iii. (iv. (v.]	Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expen Ranks given by a teacher to	by least so relation and determinated diture on c	quares m d interprition. Wh lothing v s before	ethod. et it. at it tells when the	s you. e annual aminatio	income i	is Rs.60 e actual	0,000 ranks t	hat they h	(08 m	arks)
ii. 1 iii. 0 iv. 0 v. 1 (d) F	Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expensions given by a teacher to examination are as follows. Student	e by least so relation and determinat diture on c 10 student A	quares m d interpretion. Wh lothing v	ethod. et it. at it tells when the	s you. e annual aminatio	income i on and the E	is Rs.60	0,000 ranks t G		(08 m	arks)
ii. 1 iii. (iv. (v. 1 (d) F	Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expensions given by a teacher to examination are as follows. Student Ranks given by the teacher	e by least so relation and determinate diture on c 10 student . A 9	quares m d interpretion. Wh lothing v s before B 5	ethod. et it. at it tells when the their ex	s you. e annual aminatio D 6	income i on and the E 10	is Rs.60 e actual	0,000 ranks t G 8	hat they h H 3	(08 m ave obta	arks) ined after the J
ii. I iii. (iv. (v. I (d) F	Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expensions given by a teacher to examination are as follows. Student Ranks given by the teacher Ranks obtain after the exam	e by least so relation and determinate diture on construction and the student of	quares m d interpretion. Wh lothing v s before B 5 6	ethod. et it. at it tells when the	s you. e annual aminatio	income i on and the E	is Rs.60 e actual	0,000 ranks t G	hat they h	(08 m nave obta I 4 7	arks) ined after the J 7 4
ii.] iii. (iv. (v.] (d) F	Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expensions given by a teacher to examination are as follows. Student Ranks given by the teacher	e by least so relation and determinate diture on construction and the student of	quares m d interpretion. Wh lothing v s before B 5 6	ethod. et it. at it tells when the their ex	s you. e annual aminatio D 6	income i on and the E 10	is Rs.60 e actual	0,000 ranks t G 8	hat they h H 3	(08 m ave obta	arks) ined after the J 7 4
ii.] iii. (iv. (v.] (d) F	Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expensions are as follows. Student Ranks given by the teacher Ranks obtain after the exam Mention your views on teacher the calculate the calculate the calculate the calculate the exam Mention your views on teacher the calculate the calculate the calculate the exam Mention your views on teacher the calculate the	by least so relation and determinate diture on construction. 10 student A 9 n 10 cher's force	quares m d interpretion. Wh lothing v s before B 5 6 casting.	ethod. et it. at it tells when the their ex. C 1 3	s you. e annual aminatio D 6 5	income i on and the E 10	is Rs.60 e actual	0,000 ranks t G 8	hat they h H 3	(08 m nave obta I 4 7	arks) ined after the J 7 4
ii.] iii. (iv. (v.] (d) F	Estimate the regression line Calculate coefficient of cor Calculate the coefficient of Estimate the average expensions given by a teacher to examination are as follows. Student Ranks given by the teacher Ranks obtain after the examination your views on teacher Define following terms and	by least so relation and determinate diture on construction. 10 student A 9 n 10 cher's force	quares m d interpretion. Wh lothing v s before B 5 6 casting.	ethod. et it. at it tells when the their ex. C 1 3	s you. e annual aminatio D 6 5	income i on and the E 10	is Rs.60 e actual	0,000 ranks t G 8	hat they h H 3	(08 m nave obta I 4 7	arks) ined after the J 7 4
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