

KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR FOR THE CERTIFICATE IN BANKING AND FINANCE **CBF 106: BUSINESS CALCULATIONS AND STATISTICS**

Date: 14th December 2022 Time: 11:30am -1:30pm

INSTRUCTIONS TO CANDIDATES ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- Outline four qualities of a good measure of dispersion a)
- The Marks of 15 students of a college in statistics are given below: b) 49, 62, 51, 74, 55, 80, 56, 64, 34, 42, 56, 67, 10 and 46. Find out the mean mark.

(3 Marks)

(4 Marks)

c) Let
$$A = \begin{pmatrix} 3 & 2 \\ -1 & 6 \end{pmatrix}$$
 and $B = \begin{pmatrix} 1 & -9 \\ 11 & 6 \end{pmatrix}$. Find $-\frac{4}{7}A - 13B$ (4 Marks)

- Monthly earnings of 10 employees of Brookside limited are: d) Sh 70000, 11200, 4300, 8100, 6090, 1010, 1500, 1900, 1700, 2000. Calculate the average (4 Marks) wage.
- Solve the following equation $4x^2 7x + 3 = 0$ e)
 - i) Formula (3 Marks) (3 Marks)
 - ii) Factorization
- From the data given below calculate f)

Marks	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	
Number of students	5	6	15	10	5	4	2	2	
i) Mean								(4 Ma	rks)
ii) Median								(3 Ma	rks)
iii) Mode								(4 Ma	ırks)
A bag contains 4 white beads and 3 black beads. A man pick 2 at random. Find the probability									

g) that both beads are of same colour. (3 Marks)

QUESTION TWO (20 MARKS)

The following data shows the Marks of students obtained in a given exam. a)

/		0						0			
	Marks		0-10	10-20	20-30		30-40	4	10-50		
	Number of students		7	6	15		12		0		
	Calculate; (i) Standard deviation (4									(4 Marks)	
	(ii) Coefficient of variation (3 Ma										(3 Marks)
b)	With examples discuss three types of matrices (3 N								(3 Marks)		
c)	The follo	owing data	a relate to	sizes of s	shoes sold a	t a store of	durin	ig a give	n wee	ek.	
Size of	Shoes	4.5	5.0	5.5	6.0	6.5	7.0	7.5	5	8.0	8.5
No of p	pairs	1	2	4	5	15	30	60)	95	82
	Find the median size. (3 Marks)									Marks)	
d)											
		A=	5 6] B=	$= \begin{bmatrix} 1 & 3 \\ 2 & 9 \end{bmatrix}$]						



	Determine i) Tra ii) AB iii) B ^T -	nspose of	-					(1 Mark (3 Mark (3 Mark	s)		
QUI	ESTION THE	REE (20 I	MARKS)								
a)				n from the	following	data:					
	192, 288, 2	236, 229,	184, 260, 3	48, 291, 3	30, 242			(3 Marks	3)		
b)	With exam	ple expla	in the mean	ing of a so	quare matri	х.		(2 Marks	5)		
c)	From the fe	ollowing	grouped fre	equency di	stribution.						
	Class interval	0.0-8.0) 8.0-	-16.0	16.0-24.0	24.0-32.0) 32.0-4	40.0 40.0-4	18.0		
	Frequency	8	7		16	24	15	7			
	Calculate (i)							(4 Marks)			
	-	i) Mode						(3 Marks	5)		
d)	Solve the f	ollowing	simultaneo	-	• ·						
					3y = 4 + $8y = 6$						
	i) Elii	mination	nethod	52 -	+ oy = 0			(4 Mar	ke)		
	,	ostitution						(4 Mar	,		
OUI	ESTION FOUR							(Tiviai	K5)		
a)	Calculate t			ta given b	elow						
Daily	wages (Shs)	30-35	35-4	-0 40	0-45	45-50	50-55	55-60			
No. of	f workers	5	8		10	6	3	2			
								(3 Marks)			
b)	-			-		, 40, 44, 46,					
c)	-		-	s in 5 subj	ects: 75, 55	, 48, 72 and	x. Determi	ine the value of			
	his average			_				(4 Mark	ks)		
d)	Solve the f	-	-	$x^2 - 7x + $	-3 = 0						
	i) Coi	mplating	ha gauge								
		· ·	the square					(4 Mark	,		
``	/	torization	l		<i>.</i> .			(4 Mark (3 Mark	,		
e)	Find the m	torization edian wag	ge of the fo			50.60	(0.70	(3 Mark	,		
Wage	Find the m	edian wag	$\frac{1}{90}$	-40	40-50	50-60	60-70	(3 Mark	,		
Wage	Find the m	torization edian wag	$\frac{1}{90}$			50-60 10	<u>60-70</u> 5	(3 Mark 70-80 0	s)		
Wage Numb	Find the m s er of workers	etorization edian wag 20-3 3	$\frac{1}{0}$ ge of the fo	-40	40-50			(3 Mark	s)		
Wage Numb	Find the m s eer of workers ESTION FIV	etorization edian wag 20-3 3 E (20 MA	ge of the foi 0 30- 30- 30- 30- 30- 30- 30- 30- 30- 30-	-40	40-50 20	10	5	(3 Mark 70-80 0 (5 Marks)	s)		
Wage Numb	Find the m s er of workers ESTION FIV Given belo	etorization edian wag 20-3 3 E (20 MA w are the	ge of the fo 0 30 30 RKS Marks obta	-40	40-50 20		5	(3 Mark 70-80 0 (5 Marks) 48 and 36.	s)		
Wage Numb	Find the m s er of workers ESTION FIV Given belo Find (i) Sta	E (20 MA w are the andard de	ge of the fo 0 30- 30- 30- 30- 30- 30- 30- 30- 30- 30-	40 5	40-50 20 udents; 45,	10	5	(3 Mark 70-80 0 (5 Marks) 48 and 36. (2 Marks)	s)))		
Wage Numb QUI a)	Find the m s eer of workers ESTION FIV Given belo Find (i) Sta (ii) Co	E (20 MA w are the andard de befficient	ge of the fo 0 30- 30- 30- 30- 30- 30- 30- 30- 30- 30-	ain by 9 st	40-50 20 udents; 45,	10 32, 37, 46, 3	5	(3 Mark 70-80 0 (5 Marks) 48 and 36. (2 Marks (3 Marks)	s)) ;)		
Wage Numb	Find the m s eer of workers ESTION FIV Given belo Find (i) Sta (ii) Co	E (20 MA w are the andard de befficient	ge of the fo 0 30- 30- 30- 30- 30- 30- 30- 30- 30- 30-	ain by 9 st	40-50 20 udents; 45,	10 32, 37, 46, 3	5	(3 Mark 70-80 0 (5 Marks) 48 and 36. (2 Marks)	s)) ;)		
Wage Numb QUI a) b)	Find the m s per of workers ESTION FIV Given belo Find (i) Sta (ii) Co If $A = \begin{pmatrix} 3 \\ -8 \end{pmatrix}$	etorization edian wag 20-3 3 E (20 MA ware the andard de befficient -5 1 ar	$\frac{\mathbf{RKS}}{\mathbf{Marks obta}}$ $\frac{\mathbf{RKS}}{\mathbf{Marks obta}}$ $Marks obta$ $\mathbf{Marks obta}$	ain by 9 st	40-50 20 udents; 45,	10 32, 37, 46, 3	5	(3 Mark 70-80 0 (5 Marks) 48 and 36. (2 Marks (3 Marks) (3 Marks)	s)) ;;))		
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