

# MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2016/2017

## SECOND YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN BUSINESS ADMINISTRATION

### HOMABAY CAMPUS - REGULAR

**ADB 0104: BUSINESS STATISTICS** 

Date: 18th June, 2017

Time: 9.00 - 12.00pm

#### INSTRUCTIONS:

Answer Question ONE and any other THREE

#### QUESTION ONE (25 MARKS)

(1mrk) a) Define the term statistics (6 mks) b) What is the importance of statistics?

- c) Describe factors considered when constructing index numbers
- d) What is the difference between Exclusive and Inclusive class intervals (2 mks)

e) Calculate the arithmetic mean, median from the following marks,

80,70,75,85,60,80

(6 mks)

#### QUESTION TWO (15 MARKS)

The following table shows the daily wages of random sample of supermarket workers

Daily Wages (Kshs)	No of Workers	
200 - 399	5	
400 - 599	15	
600 - 799	25	
800 - 999	28	
1000 - 1199	20	
1200 - 1399	7	
a) Required:		
i. Upper Quartile		1

i.	Upper Quartile	(3mks)
H.	Lower Quartile	(3mks)
III.	Inter-quartile Range	(3mks)
īv.	Quartile Deviation	(3mks)

(3mks) b) Distinguish between primary and secondary data

#### QUESTION THREE (15 MARKS)

The table below shows the marks for 50 students of Maseno University in Business Statistics

Marks	No. of students	
100 - 150	5	
150 - 200	8	
200 - 250	4	
250 - 300	6	
300 - 350	10	
350 - 400	6	
400 - 450	. 5	
450 - 500	6	
Required:		
i.	The mean mark of the class	(5mks)
ii.	The median mark of the class	(5mks)
iii.	The modal mark of the class	(5mks)

#### QUESTION FOUR (15 MARKS)

a) A problem in statistics is given to students A, B, C, D and E. Their chances of solving it correctly are, 1/2, 1/3, 1/4, 1/5 and 1/6 respectively. What is the probability that:

(4mks)

i	i. The problem is not solved	(3mks)		
b) Define the following terms:				
i.	Exhaustive Cases	(2mks)		
ii.	Favorable Cases	(2mks)		
iii.	Mutually exclusive cases	(2mks)		
iv.	Independent events	(2mks)		

The problem will be solved correctly by all of them

#### QUESTION FIVE (15 MARKS)

a) The following information was collected from students of Alliance High School

	Marks	frequency	
-	100 - 110	4	
	110 - 120	. 6	
	120 - 130	20	
	140 - 150	17	
	150 - 160	11	
	160 - 170	10	
	Required:		
	i. Variance	(2mks)	)
	ii. Standard d	eviation (3mks)	
	b) Discuss properties	of a good measure of variation or dispersion (10m)	(s)
Q	UESTION SIX (15 MARI	(S)	
	a) With a well lab	eled diagram, explain two types of skewness (5mks	)

b) Explain major methods of data collection. (10mks)