CHUKA



UNIVERSITY

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EXAMINATIONS FOR THE AWARD OFDIPLOMA IN BUSINESS MANAGEMENT

DIBM 0223: BUSINESS STATISTICS

STREAMS: DIBM TIME: 3 HOURS

DAY/DATE: WEDNESDAY 08/8/2018 8.30 A.M. – 10.30 A.M.

INSTRUCTIONS: Answer question ONE and any other TWO questions

QUESTION ONE

(a) Discuss the importance of statistics in business

[5 marks]

- (b) Explain the following terms as used in statistics
 - (i) Descriptive statistics
 - (ii) Qualitative variable
 - (iii) Parameter
 - (iv) Secondary data

[6 marks]

(c) The following data set results to the number of vehicles booked by passengers for 50 days

48, 22, 12, 33, 53, 44, 51, 57, 61, 46, 72, 83, 15, 24, 36, 23, 42, 53, 63, 75, 85, 43, 17,

26, 48, 28, 38, 38, 42, 55, 44, 65, 56, 76, 33, 37, 54, 38, 41, 45, 66, 68, 78, 55, 35, 39,

45, 51, 52, 66

Required: create a grouped frequency distribution starting with 11 - 20 class using inclusive method [2 marks]

- (i) Prepare a histogram and frequency polygon using the above data [6 marks]
- (ii) Plot a stem and leaf to represent the above data [6 marks]
- (d) State three properties of a good measure of dispersion [3 marks]

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(e) The following data set relates to the number of classrooms 20, 17, 25, 30, 28, 10, 36, 19, 40, 52

Required:

Calculate the moving average order of three

[5 marks]

QUESTION TWO

- (a) With the aid of a diagram describe the components of time series [6 marks]
- (b) After an exam students performed as explained below

Marks	Number of students
11 - 20	3
21 - 30	5
31 - 40	8
41 - 50	11
51 - 60	10
61 - 70	7
71 - 80	4
81 - 90	2

Required:

Mean, median, mode, quartile deviation, mean average deviation and standard deviation

[12 marks]

(c) State any two properties of measures of central tendency

[2 marks]

QUESTION THREE

(a) Discuss the steps involved in data collection

[6 marks]

(b) You are given the following information about the prices of various commodities in Chuka market for two consecutive years

	2016			2017	
	Price	Quantity	Price	Quantity	
A	20	80	30	60	
В	50	150	10	50	
C	40	120	14	100	
D	15	200	16	130	

Required:

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	Laspe	[10 marks]					
(c) (d)		Differentiate between class mark and class boundary Define the term statistics [2 marks]					
QUES	STION	FOUR					
(a)	High		[2 marks]				
(b)	Expla		[6marks]				
(c)	The following information relates to ABC limited						
		Months	X	Y			
		January	15	200			
		February	22	250			
		March	18	180			
		April	10	220			
		May	8	150			
		June	12	250			
		July	25	400			
		August	30	350			
Required:							
	(i)	[10 marks]					
	(ii)	ate the value of					
		[2 marks]					