



MUEO

MOI UNIVERSITY

**OFFICE OF THE DEPUTY VICE CHANCELLOR, ACADEMIC
AFFAIRS, RESEARCH & EXTENSION**

**UNIVERSITY EXAMINATIONS
2016/2017 ACADEMIC YEAR**

END OF SEMESTER EXAMINATIONS

**FOR THE DEGREE
IN BACHELOR OF BUSINESS AND ECONOMICS**

EXAM CODE:- BBM 211

COURSE TITLE:- BUSINESS STATISTICS

DATE:-12TH JUNE, 2017

TIME:- 9.00A.M. – 12.00NOON.

INSTRUCTION TO CANDIDATES

➤ **SEE INSIDE.**

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BBM 211: BUSINESS STATISTICS

Instructions: Answer Question One and Any Other Three Questions

1. (a) Draw less than and more than Ogives from the data given below:

Class	f
10 - 20	6
20 - 30	8
30 - 40	12
40 - 50	18
50 - 60	25
60 - 70	16
70 - 80	8
80 - 90	5
90 - 100	2

(12 mks)

(b) Mean of 100 observations is found to be 40. If at the time of computation two items were wrongly taken as 30 and 27 instead of 3 and 72. Find the correct mean. (13 mks)

2. Calculate the lower and upper Quartiles, third Decile and 20th Percentile from the following data:-

x	2.5	7.5	12.5	17.5	22.5
f	7	18	25	30	20

(25 mks)

3. (a) Calculate the standard deviation from the data given below:-

x	f
3.5	3
4.5	7
5.5	22
6.5	60
7.6	85
8.5	32
9.5	8

(15 mks)

(b) Define the term statistics and explain how the knowledge of statistics is essential in management. (10 mks)

4. (a) Why is a complete questionnaire subjected to editing? (5 mks)

(b) While citing relevant examples, explain considerations given attention when editing a complete questionnaire. (20 mks)

5. (a) From the following data of age of employees, calculate Bowley's coefficient of skewness and comment on its value.

x	25	30	35	40	45	50	55
f	8	20	40	65	80	92	100

(13 mks)

(b) Distinguish between Karl Pearson's and Bowley's coefficient of Skewness. (6 mks)

(c) The first central moments of a distribution are 0, 16, -36 and 120. Comment on skewness and Kurtosis of this distribution. (6 mks)