

College Name: _____

Student Name: _____ Seat No: _____

Copy No: _____

KARACHI UNIVERSITY BUSINESS SCHOOL
UNIVERSITY OF KARACHI
FINAL EXAMINATION JUNE 2017; AFFILIATED COLLEGE
BUSINESS STATISTICS; BA (M)-532
MBA – II

Date: July 6, 2017

Max Time: 2 Hrs
Max Marks: 30

INSTRUCTIONS:

- 1. Attempt all questions. Do not write anything on the question paper, EXCEPT the initials mentioned above.**
- 2. Mobile phone(s) or any other communicating device will not be allowed in the examination room. Students will have to remove the batteries of these devices before entering the examination hall.**

- Q1 a) Compare the properties of AM and GM.
b) Following data represents the shoe of different sizes sold in a shop.

Shoe sizes	3.0—3.9	4.0—4.9	5.0—5.9	6.0—6.9	7.0—7.9	8.0—8.9	9.0—9.9
No of pair sold	3	6	9	16	30	9	5

Prove that $GM > HM$.

- Q2 a) Data given below shows the price and quantity of different items for the year 2012 and 2013.

Items	Price 2012	Price 2013	Quantity 2012	Quantity 2013
Rice	55	54	12	12
Fuel	73	72	160	150
Electricity	12	13	425	472
.Wheat	40	42	11	12

Calculate Fisher's price index by taking 2012 as base year

- b) i) How many four letter words can be formed from the letters of the words "SOCIETY".
ii) How many of them begin with the letter C.
- Q3 a) The probability that 40% of the people buy newspaper "Daily Bulletin" before boarding the train. If there are 10 passenger in a compartment, by using binomial distribution, what is the probability that
- i. Exactly 2 bought the Daily Bulletin
 - ii. At-least 8 bought the Daily Bulletin
 - iii. Find the mean number of people have the Daily Bulletin
- b) On the average there are 4 telephone calls in 10 min comes on a office switch board. What is the probability that there will be
- i. No call in 10 min interval
 - ii. Exactly average number calls in 5 min interval
 - iii. Exactly 2 calls in 5 min interval
 - iv. More than 4 calls in 10 min interval

END OF SUBJECTIVE PAPER