

College Name: \_\_\_\_\_

Student Name: \_\_\_\_\_ Seat No: \_\_\_\_\_

Copy No: \_\_\_\_\_

**KARACHI UNIVERSITY BUSINESS SCHOOL**  
**UNIVERSITY OF KARACHI**  
**FINAL EXAMINATION JUNE 2016; AFFILIATED COLLEGE**  
**BUSINESS STATISTICS: BA (M) – 532**  
**MBA – II**

Date: July 14, 2016

Max Time: 1.5 Hrs  
Max Marks: 30

**INSTRUCTIONS:**

1. Attempt all questions. Do not write anything on the question paper.
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) The following data represents the running times of films produced by two company

Company I	150	160	145	150	140	155	150	155
Company II	170	150	145	160	140	165	155	160

- Calculate which company is more consistent.

b) Write two properties of

- a) Standard Deviation
- b) Coefficient of Variation
- c) Coefficient of Correlation
- d) Coefficient of Regression
- e) Mode

Q2 a) i) The number of ways in which letters of the word INFINITY can be arranged.  
ii) How many four digit numbers can be formed from the digits 0, 5, 6, 7, 8, 9. If each digit is used only once.

b) Calculate the missing values for four examples on the table below

Sr	Class interval	Mid-point	Class boundary	Width of class
a.	0.05—0.09	?	?	?
b.	(-2.5)—(-1.5)	?	?	?
c.	1.984—2.872	?	?	?
d.	?	5	?	4

Q3 a) The probability that 30% of the people travel by motorcycle wear glasses. From a sample of 8 motor cycle owners, calculate the probability that

- i. Exactly 2 wear glasses
- ii. At-least 6 wear glasses
- iii. More than mean number wear glasses.

b) The data shows amount received when Rs 100 is invested in a bank term deposit

Time in years X	3	5	8	10	12	15	20
Amount received per year Y	6	8	12	15	18	25	30

Data:  $\Sigma X=73$   $\Sigma Y=114$   $\Sigma XY=1495$   $\Sigma X^2=967$   $\Sigma Y^2=2318$

- i) Find regression line to estimate amount received when deposited for 6 years.
- ii) Interpret a and b.

**END OF SUBJECTIVE PAPER**