

**APPEARANCE OF MOBILE PHONE(S) / SMART DEVICE(S) SUBJECT TO CONSIDERED AS AN
ACT OF CHEATING**

Student Name: _____ Father's Name: _____

Copy No: _____

**KARACHI UNIVERSITY BUSINESS SCHOOL
UNIVERSITY OF KARACHI
FINAL EXAMINATION JUNE 2015
STATISTICAL INFERENCE; BA (H)-432 (PART B)
BBA – IV**

Date: June 6, 2015

Max. Time: 60 Mins

Max. Marks: 30

INSTRUCTIONS:

- 1. Attempt all questions. Do not write anything on the question paper.**
- 2. Mobile phones 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. Give reason why

- i) Chi square test of independence is always a right tail test.
- ii) If a hypothesis is rejected at 10% then it will also be rejected at 5%, but vice versa is not always true.
- iii) Simple Random Sampling is suitable technique to samples when the population is homogeneous.
- iv) The sign of Regression and correlation coefficient is same.
- v) Why type I error is increases when type II error decreases.

Q2. Mr. Brown and Mr. Green work at the same office and live next door to each other. Each day they leave for work together but travel by different routes. Mr. Brown maintains that his route is quicker, on the average, by atleast 4 minutes. Both men time their journey in minutes over a period of 10 weeks. The results obtained were:

Mr Brown	n= 50	mean=21 min	Standard deviation = 10.24 min
Mr Green	n= 50	mean=24 min	Standard deviation = 7.84 min

Assume normal distribution and that they have common population variance. Test at 5% level whether Mr Brown claim's can be accepted.

Table value (1.645)

Q3. Calculate the equation of regression line y on x for the following distribution:

X	25	30	35	40	45	50
Y	78	70	65	58	48	42

Is it possible to calculate from the equation you have just found

- a) An estimate for the value of x when $y=54$?
- b) An estimate for the value of y when $x=37$?

In each case if the answer is "YES" calculate the estimate, if the answer is "No" give reason why not.

END OF SUBJECTIVE PAPER