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

College Name: $\qquad$

Student Name: $\qquad$ Seat No: $\qquad$

Copy No: $\qquad$

# KARACHI UNIVERSITY BUSINESS SCHOOL <br> UNIVERSITY OF KARACHI <br> FINAL EXAMINATION; AFFILIATED COLLEGE JUNE 2015 <br> BUSINESS STATISTICS; BA (H)-451 (PART B) <br> BBA - III 

Date: June 8, 2015
Max. Time: 1 Hr
Max. Marks: 30

## INSTRUCTIONS:

1. Attempt any 3 questions. Do not write anything on the question paper. TABLES ARE NOT REQUIRED.
2. Use of 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 a) Calculate Coefficient of variation for the following data:
2,4,6,8,1,9,12
b) Under what conditions?
i) Correlation coefficient = Regression coefficient
ii) Standard deviation = Mean Deviation=Quartile Deviation=Range
iii) Mean = Median = Mode
iv) Mean $=$ Median $=$ Mode $=G M=H M$
v) Standard deviation = Mean Deviation = Quartile Deviation = Range $=0$

Q2 Following data represents the weight of the box and coins and number of coins in a box.

| Number of coins | $X$ | 10 | 20 | 30 | 40 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Combined Weight of box and coins | $Y$ | 312 | 509 | 682 | 865 |

$n=4 \quad \Sigma x=100$
$\Sigma X=68360 \quad \Sigma X^{2}=3000$
a) Calculate regression line $y$ on $x$
b) Estimate the weight of the coin and the box.

Q3 a) For the following choose the answer and give reason if, in frequency distribution length of each class interval increases then
i) Number of classes
a) Increases b) decreases c) remains same
ii) Frequency in each class
a) Increases
b) decreases c) remains same
iii) Accuracy of the data
a) Increases
b) decreases c) remains same
iv) Total frequencies
a) Increases
b) decreases c) remains same
b) For an index number $\quad \Sigma p_{o} q_{o}=2000 \quad \Sigma p_{n} q_{o}=2200$

Calculate relevant weighted aggregative index number.
Q4 The following table represents the hypertension and smoking habit of 180 individuals.

|  | Non Smokers | Moderate Smokers | Heavy Smokers |
| :--- | :--- | :--- | :--- |
| Hypertension | 25 | 35 | 32 |
| No Hypertension | 44 | 27 | 17 |

One persons is picked at random from this group, find the probability that
i) The person is a heavy smoker
ii) The person is a non smokers given that the person has no hypertension
iii) The person is a moderate smokers given that the person has hypertension
iv) If two persons are picked at random calculate the probability that both are non smokers

