College Name: _____

Seat No: _____   Student's Name: _____

Copy No: _____

KARACHI UNIVERSITY BUSINESS SCHOOL
UNIVERSITY OF KARACHI
FINAL EXAMINATION DECEMBER 2017; AFFILIATED COLLEGES
BUSINESS STATISTICS; BA (H)–451
BBA – III

Date: December 26, 2017   **Max Time: 90 Mins**
                                                                 Max Marks: 30
INSTRUCTIONS:
1. **Attempt all questions. Do not write anything on the question paper. EXCEPT the initials mentioned above.**
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 a)   What are the four basic activities of statistics?
   b)   Differentiate between "STATISTIC" and "STATISTICS".
   c)   Following frequency distribution shows the score of scouts on a test.

Score	0—14	15—29	30– 44	45—64	65—84	85—99
frequency	2	8	10	17	19	12

Answer the following:
   i.   If 45 is the pass marks what % of the people are failed
   ii.   If 85 and above is distinction, what % of people having distinction
   iii. At what score 50% of the people fall below
   iv.   At what score 25% of score fall above it.

Q2 a)   Find the probability of obtaining two heads when three coins are tossed simultaneously.
   b)   Calculate E(X) and V(X)

X	−1	0	1	2
P(X)	0.2	0.4	0.3	0.1

   c)   In how many ways 4 people lined up to get on a bus (Write all steps?)
   d)   How many if two people insist to follow each other (write full explanation)

Q3 a)   The moisture content M in a mud was measured at depth D meters. The regression equation was obtained   M=−2.2D+83.85
   i.   Identify regression coefficient and constant
   ii.   Interpret the regression coefficient and constant.
   b)   Calculate coefficient of correlation for the data

X	0	5	10	15	20	25	30
Y	85	82	56	42	30	21	21

END OF SUBJECTIVE PAPER