College Name: _____

Student Name: _____   Seat No: _____

Copy No: _____

KARACHI UNIVERSITY BUSINESS SCHOOL
UNIVERSITY OF KARACHI
FINAL EXAMINATION JUNE 2017; AFFILIATED COLLEGES
ADVANCE BUSINESS STATISTICS; BA (M)–601
MBA – III

Date: July 12, 2017   **Max Time: 1.5 Hrs**
                                                                     Max Marks: 30

INSTRUCTION:
   1. **Attempt all questions. TABLES are not required. Do not write anything on the question paper, <u>EXCEPT</u> the initials mentioned above.**
   2. **Mobile phone or any 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) Describe the procedure of drawing a random sample of size 10 from a population of size 50 by using random number.

   b) What are the conditions for applying t-distribution and Normal distribution in case of Testing Hypothesis for difference of means

Q2   Following data represents the test score of two groups of people
        Group I   n= 12   mean=76   Standard deviation = 2.8
        Group II   n= 10   mean=81   Standard deviation = 3.2
        Construct 95 % Confidence interval for difference of means   [Use Table value= 2.086]
        By using the result of part (i); test the hypothesis that H_0: $\mu1=\mu2$; H_1: $\mu1\neq\mu2$

Q3   A sample of 110 college students were asked whether or not they involved in campus activities. Following data were obtained.

	Region			
Campus Activities	**East**	**South**	**Central**	**West**
Involved	19	22	13	8
Not involved	10	6	15	17

        Test at 5% that students' response and region in which college is located are independent.
        [Table value=7.815]

END OF SUBJECTIVE PAPER