College Name:	
Student Name:	Seat No:
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KARACHI UNIVERSITY BUSINESS SCHOOL UNIVERSITY OF KARACHI FINAL EXAMINATION JUNE 2016; AFFILIATED COLLEGES ADVANCE BUSINESS STATISTICS BA (M) – 601 MBA – III

Date: July 20, 2016 Max Time: 2 Hrs
Max Marks: 30

INSTRUCTIONS:

- 1. Attempt all questions, all carry equal marks.
- 2. Do not write anything on the question paper.
- 3. 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 Differentiate between the following:
 - 1. Efficiency and Consistency property of good estimate.
 - 2. The standard error and standard deviation.
 - 3. Type I error and type II errors.
 - 4. Test of Significant and Test of Hypothesis.
 - 5. Cyclic Variations and Seasonal variations in a time series data.
- Q2 Given that P(Z<1)=0.8413 & P(Z<2)=0.9772, by using the symmetric property of normal curve calculate
 - a) What proportion of a normal distribution lies within one standard deviation of the mean?
 - b) What proportion is more than 2.0 standard deviations from the mean?
 - c) The temperature (in degree C) follows normal distribution with mean = 1 and variance=1. Calculate the probability that temperature is positive.
- Q3 a) A university constructing a hall for deciding about the height of the main gate, a random sample of 250 students were taken and their height(in cm) were recorded, following results were obtained.
 - Σx =43205 Σx 2= 7469107. Construct 99% confidence interval of the mean height of students and decide about the height of the main gate. (Table value ±3.29)
 - b) By using the confidence interval test the hypothesis that μ =185 cm.

END OF SUBJECTIVE PAPER