

College Name: _____

Student Name: _____ Father's Name: _____

Copy No: _____

KARACHI UNIVERSITY BUSINESS SCHOOL
UNIVERSITY OF KARACHI
FINAL EXAMINATION DECEMBER 2016; AFFILIATED COLLEGES
STATISTICAL INFERENCE; BA (H)-432 (PART B)
BBA – IV

Date: December 24, 2016

Max. Time: 1 Hrs
Max. Marks: 30

INSTRUCTIONS:

1. Attempt any 3 questions. Do not write anything on the question paper.
2. **TABLES ARE NOT REQUIRED.**
3. 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) A smoking researcher is interested in estimating the average age when cigarette smokers first began to smoke. Taking random samples of 25 smokers she determined a sample mean 16.8 years and standard deviation of 1.5 years. Construct 95 % confidence interval to estimate population mean age of the onset of smoking.

[Table value = 2.064]

Q1 b) Give reason why coefficient of multiple correlation lies between 0 and 1

Q2 Two groups of people participated in an experiment designed to test the effect of frustration on aggression. Group A has given frustrating puzzle to solve and group B given easy non frustrating version of the same puzzle. Following data represent average mean aggression and standard deviation

Group A	n=40	mean=4.0	Standard Deviation=2.0
Group B	n=40	mean=3.0	Standard Deviation=1.5

Test the hypothesis at 5% level that there is no difference between two groups. What conclusion would you draw?

[Table value = -1.96]

Q3 A sample of 118 college students were asked whether or not they involved in campus activities. Following data were obtained.

Campus Activities	Region			
	East	South	Central	West
Involved	19	25	15	8
Not involved	10	6	15	20

Test at 5% that students' response and region in which their college is located are independent.

[Table value = 7.815]

Q4 a) In a random sample of 600 cars making a right turn at a certain intersection, 157 pulled into the wrong lane. Test the hypothesis that 30% of all drivers make this mistake at 1% level of significance.

[Table value = 2.57]

b) What are the condition for applying t distribution for testing difference of means?

END OF SUBJECTIVE PAPER