College	Name:	
Studen	t Name:	Father's Name:
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	KARACHI UNIV UNIVE FINAL EXAMINATION J STATISTICAL INF	ERSITY BUSINESS SCHOOL RSITY OF KARACHI JUNE 2017; AFFILIATED COLLEGES ERENCE; BA (H)–432 (PART B)
Date:	June 12, 2017	BBA – IV Max. Time: 1.5 Hrs Max. Marks: 30
1. 2. 3.	Attempt all questions. Do no the initials mentioned above. TABLES ARE NOT REQUIRED. Mobile phones or any other of examination room. Students before entering the examinat	t write anything on the question paper, <u>EXCEPT</u> communicating device will not be allowed in the will have to remove the batteries of these devices tion hall.
Q1)	 Define the following: i) Method of using normal approximation ii) Critical region of Chi square g iii) Role of variance in Consistence iv) Coding of time series data v) Degree of freedom in case of 	oximation to the binomial probability distribution. oodness of fit. cy property of good estimator test of hypothesis of difference of population mean
Q2 a)	In a year, the average sale (in the four seasons are summer=120, evidence that the sale of ice crear	nousand Kg) of a certain brand of ice cream per day in winter=80, autumn=90 and spring=110. Is there any m is uniform in four seasons at 5% level of significance? [Table value=7.815]
b)	Following is a contingency table and diabetic state for a sample of	showing cross classification of educational attainment f 1273 people.

Diabetic state Education	Diabetes	No Diabetes
Less than Matriculation	33	218
Matriculation	25	389
Intermediate	20	393
Graduate	17	178

At the 1% significance level, do the data provide sufficient evidence to conclude that an association exists between educational level and diabetic state? **[Table value=11.345]**

- Q3) A cold drink supplier wanted to compare the sale of brand A and brand B cold drink. He noted the sale for 10 days and found that: [Table value=2.101]
 - Brand A Mean= \$ 25000/- Standard deviation = \$ 1200
 - Brand B Mean= \$ 22000/- Standard deviation = \$ 700
 - i) Construct 95% confidence interval for difference of means.
 - ii) By looking at the confidence interval comment on the significance of difference of population mean.

END OF SUBJECTIVE PAPER