2020

UNIVERSITY OF CALCUTTA EXAMINATION CONDUCTED BY LORETO COLLEGE

B.A/B.Sc. SEMESTER IV HONOURS EXAMINATION, CBCS SYSTEM GROUP B

PSYCHOLOGY - HONOURS - THEORY

Statistical Methods for Psychological Research-II

CC-9

TIME ALLOTTED: 2 HOURS

FULL MARKS: 50

The figures in the margin indicate full marks for each question.

1.		Answer any 2: (Word	Limit – 150 words)		10x2=20	
	a)	Define non – parametri non-parametric statisti	ic tests. Write the differences between es.	parametric and	3+7	
	b)	State the assumptions	of student's t-test.		10	
	c)	and low general abil freedom (df)= 1, Critic	ty. The computed chi-square value al values = 3.841 (0.05 level of signification of the square signification of the significant of t	is 1.98, degrees of cance) & 6.635 (0.01	10	
2.		Answer any 2: (Word Limit – 600 words)				
	a)	Describe briefly the two different types of t-test based on the nature of the sample.			7+8	
		The mean birth weight of 832 male infants is 2.9 kg with an sd of 0.65. The mean birth weight of 608 female infants is 3.3 kg with an sd of 0.55. Statistically compute and see if the mean birth weights of females are more than males. Critical score for t with a $df = 1438$: 1.645 (0.05)				
	b)	Compute the following sum using an appropriate statistical method: The scores of 8 city students and 8 suburban students in a common entrance examination are given below. Find whether or not the mean score of city students are significantly higher than that of the suburban students: City students (X) Suburban students (Y)			15	
		50	49			
		58	52			
		60	51			

55	56	
59	55	
56	53	
54	52 ·	
64	48	
0.		01

Critical scores for df=14: 1.761 (0.05) & 2.624 (0.01)

c) Discuss any 3 uses of Chi-square.

15

d) Define Chi-square. State its assumptions. What is Additive Property and Yates

Correction of Chi-square?