सत्यं शिवमागम्

WEST BENGAL STATE UNIVERSITY
B.A./B.Sc. Honours 4th Semester Examination, 2021

PSYACOR08T-PSYCHOLOGY (CC8)

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.

Answer any *four* questions from the following

5×4 = 20

1. What are z scores? What is the need for z scores?

2. What are the assumptions of chi square test?

3. Write a short note on Confidence Interval with suitable examples. Define Hypothesis.

4. What is ANOVA? What are the differences between ANOVA and t-test?

5. Write down the assumptions of Independent Sample t test.

6. What are the differences between parametric and nonparametric tests?

Answer any *two* questions from the following

10×2 = 20

7. A researcher wanted to know the effect of school environment on the growth of intelligence of children. For this purpose, he selected two groups based on his choice- one from a public school and one from a private school. The IQ scores of these two groups are given below:

10

Public School	Private School		
120	115		
118	94		
116	90	**0.05**	**0.01**
106	110	41	30
117	97		
110	118		
125	112		
108	99		
98	110		
105	114		
104			
108			
116			

Is there any significance difference between the groups? Interpret the results.

1

8.   The following are the scores obtained in BDI of three groups of people. Find if there exists any significant difference between them.   10

   G1 - 12, 15, 3, 5, 16, 18, 13
   G2 - 10, 7, 7, 6, 11, 17, 15
   G3 - 11, 13, 14, 12, 13, 19, 10

   (0.05= 4.05)

9.   What are parametric tests? What are the assumptions of parametric statistics? Give examples.   10

10.   Define "Degrees of Freedom". Why do we use "Chi square" as a test of "Goodness of Fit"? Write down the assumptions of ANOVA and Mann Whitney U test.   2+2+6

   N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

———×———