# 2021

## PSYCHOLOGY — HONOURS — PRACTICAL

### Paper : CC-9P

### (Statistical Methods for Psychological Research - II)

### Full Marks : 30

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words
as far as practicable.*

Attempt the following.

**1.** State the features of Chi Square test. 10

**2.** Students belonging to three religious groups were administered an item in an attitude scale regarding a social issue. The data obtained from them are as follows :

| Religious groups | Attitude | | |
|---|---|---|---|
| | Yes | No | Undecided |
| Hindu | 10 | 25 | 15 |
| Muslim | 20 | 20 | 5 |
| Christian | 30 | 15 | 10 |

Do you think that attitude of students is dependent upon their religion?

$\chi^2_{.05(4)} = 9 \cdot 49 \qquad \chi^2_{.01(4)} = 13 \cdot 28$ . 10

**3.** A test of numerical ability was administered on 10 students. Then they were allowed to practice sums for one hour. Then again their numerical ability was measured using a parallel test. The scores of two phases are as follows :

Before practice   69     80     75     65     92     84     97     90     67     72

After practice   89     110     82     115     137     109     103     110     81     120

Test the null hypothesis at ·05 level.

$t_{.05(9)} = 2 \cdot 262.$ 10

———————