

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2017

(Third Semester)

Branch- PSYCHOLOGY

PSYCHOLOGICAL STATISTICS - II

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 x 2 = 20)

- 1 Hypothesis ;
- 2 Level of significance
- 3 Correlation
- 4 Regression
- 5 ANOVA "
- 6 Replication
- 7 Chi-square
- 8 Sign test 1
- 9 Reliability .
- 10 Validity

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Compare type -I error and type - II error.

« • « OR

- b An interest test is administered to 6 boys in a science class and 10 girls in a Maths class. Is the mean difference between the two groups significant at 0.05 level.

Science Class $N_i = 6$

Scores 28, 35, 32, 24, 26, 35

Maths class $N_T = 10$

Scores 20, 16~25, 34, 20, 28, 31, 24, 27, 15.

- 12 a Enlist the types of correlation.

• ; ' OR

- b Compare product moment correlation and rank order correlation.

- 13 a State the principles of experiments.

OR

- b Write a short note on Turkey's test. •

- 14 a Bring out the importance of sign test.

OR

- b When and why is a median test used?

- 15 a What are the types of reliability?

OR *

- b What are the types of validity? .

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

16 Explain how t-values are completed for correlated samples.

17 Compare regression for the following data:

Marks in history (x)

 $M_x = 75$ $a = 6.00$

Marks in English

 $M_y = 70$ $a_y = 8.00$

18 Compute Chi-square for the following data.

	to	fe
Heads	40	50
Tails	60	50

19 Calculate ANOVA for the following data:

Group I	Group II	Group III
3	4	5
5	5	5
3	3	5
1	4	1
7	9	7
3	5	3
6	5	7

20 Describe the software package of statistics and its applications.

Z-Z-Z

END