BPC-004

B. A. PSYCHOLOGY (BDP)

Term-End Examination

June, 2020

BPC-004 : STATISTICS IN PSYCHOLOGY

Time : 2 Hours   *Maximum Marks : 50*

Note : All sections are compulsory. Use of simple calculator is permitted.

Section—A

Note : Answer any *two* of the following questions in about 450 words each.

1. Discuss in detail the inferential procedure.   10

2. Explain the concept of Dispersion. Elucidate the functions and measures of dispersion.   10

3. Compute Spearman's rho for the following data : 10

Data A	Data B
21	14
7	23
12	20
18	18
15	22
8	27
25	12
10	30
26	16
28	11

4. Compute Chi-square for the following data : 10

	Male	Female
Low socio-economic status	12	16
High socio-economic status	13	14

Section—B

Note : Answer any *four* of the following in about 250 words each.

5. Compute cumulative frequency distribution for the following data with class interval of :

   5, 10, 1, 2, 3, 4, 10, 12, 13, 14, 15, 15, 3, 6, 7, 9, 12, 10, 11, 12, 13, 15, 17, 18, 19

   Explain cumulative frequency curve. 3 + 3

6. Compute mean, median and mode for the following data : 2 each

   7, 10, 11, 6, 5, 11, 10, 11, 12, 15, 5, 7, 6, 10, 11, 15, 20, 11, 12, 13, 15, 45, 32, 17, 11, 18, 21, 11, 14, 15, 7

7. Compute standard deviation for the following data : 6

7, 8, 10, 12, 11, 15, 18, 5

8. Discuss the interpretation of correlation. 6

9. Discuss the concept of normal distribution with suitable diagram Elucidate the application of the normal curve. 6

Section—C

Note : Write short notes on any *two* from the following in about 100 words each.

10. Bar diagram. 3

11. Standard error 3

12. Outliers 3

2540