

**BACHELOR'S DEGREE PROGRAMME (BDP)
(B.A. PSYCHOLOGY)**

Term-End Examination

June, 2018

BPC-004 : STATISTICS IN PSYCHOLOGY

Time : 2 hours

Maximum Marks : 50

Note : (i) All sections are compulsory.

(ii) Use of Simple Calculator is permitted.

SECTION - A

Answer any two of the following questions in about 450 words each : 2x10=20

1. Discuss the meaning of Statistics. Differentiate statistics by functions and on the basis of distribution of data. 3+7
2. Explain normal distribution and describe its properties. 4+6
3. Describe the characteristics of a good measure of central tendency. Compute mean, median and mode for the following data : 4+6
39, 41, 56, 72, 83, 92, 35, 36, 39
4. Define and describe correlation. Compute Spearman's Rho for the following data : 3+7

Students

| | A | B | C | D | E | F | G | H | I | J |
|------------------------|----|----|----|----|----|----|----|----|----|----|
| Emotional Intelligence | 80 | 72 | 54 | 64 | 70 | 62 | 50 | 59 | 60 | 49 |
| Self concept | 82 | 84 | 69 | 76 | 75 | 73 | 62 | 71 | 54 | 49 |

SECTION - B

Answer **any four** of the following questions in about 250 words each : $4 \times 6 = 24$

5. Discuss graphical presentation of data with examples. 6
6. Tabulate the following scores into frequency distribution using the class interval of 10. 6
1, 12, 14, 18, 22, 24, 25, 31, 36, 37, 41, 45, 48, 59,
1, 2, 4, 6, 12, 66, 56, 46, 73, 81, 27, 36, 40, 41, 53,
88, 64, 71, 82, 90, 76, 42.
7. Compute standard deviation for the following data : 6
12, 13, 16, 18, 40, 39, 72, 91, 12, 13
8. Explain the components of a statistical table and describe the importance of tabulation. 4+2
9. Discuss the concept and functions of dispersion. 2+4

SECTION - C

Write short notes on **any two** of the following in about 100 words each : $2 \times 3 = 6$

10. Point and interval estimation 3
 11. Outliers 3
 12. Test of goodness of fit 3
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