

**BACHELOR'S DEGREE PROGRAMME (BDP)
(B.A. PSYCHOLOGY)****Term-End Examination****December, 2016****BPC-004 : STATISTICS IN PSYCHOLOGY***Time : 2 hours**Maximum Marks : 50**Note : (i) All sections are compulsory.**(ii) Use of Simple Calculator be permitted.***SECTION - A**

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

1. Explain measures of central tendency with a focus on its functions. Elucidate the characteristics of a good measures of central tendency. 6+4
2. Elucidate the fundamental concepts in determining the significance of the difference between means. 10
3. Compute Spearman's rank order coefficient of correlation for the following data : 10

	A	B	C	D	E	F	G
Data 1	20	25	22	21	29	28	34
Data 2	45	40	39	37	30	32	34

4. With the help of 't' test find if significant difference exists in early and late adolescents with regard to emotional intelligence. 10

Emotional Intelligence Scores						
Early adolescents	10	5	16	14	5	10
Late adolescents	9	1	8	7	10	1

Critical value :

For 0.01 level of significance = 3.17

For 0.05 level of significance = 2.23

SECTION - B

Answer any four of the following questions in about 250 words each : 4x6=24

5. Describe the concept of inferential statistics. 3+3
Elucidate the general procedure for testing a hypothesis.
6. Tabulate cumulative frequency distribution for the following data with class interval of 5 : 6
10, 12, 13, 15, 10, 9, 8, 7, 3, 2, 4, 1, 8, 7, 3, 2, 4, 1, 8, 7, 7, 6, 5, 4, 7, 8, 10, 9, 8, 5, 6, 11, 12, 13, 14, 15.
7. Compute mean for the following grouped data : 6

Class interval	Frequency
45 - 49	7
40 - 44	10
35 - 39	7
30 - 34	8
25 - 29	8
20 - 24	9
15 - 19	1
10 - 14	3
5 - 9	2
1 - 4	5

8. Explain average deviation. Compute standard deviation for the following data : 3+3
25, 15, 10, 20, 10, 25, 12, 13, 11, 9.
9. Define Probability. Discuss application of the normal curve. 2+4

SECTION - C

Write short notes on any two of the following in about 100 words each : 2x3=6

10. Pie diagram 3
11. Linear relationship 3
12. Parametric statistics 3
-

+