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BPC-004

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

Term-End Examination

00538

June, 2015

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 500 words each : $2 \times 10 = 20$

1. Define and discuss the scope, use and limitations of Statistics. 10

2. Discuss the different measures of central tendency and the properties of each measure of central tendency. 4+6=10

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**To Get Solution to these¹ Questions and Exam Notes
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3. Define Coefficient of Correlation. Calculate Spearman's Rank coefficient of correlation for the following data : $2+8=10$

Sr. no.	Data 1	Data 2
1	85	90
2	70	70
3	75	74
4	80	82
5	55	50
6	45	86
7	56	48
8	60	62
9	58	60
10	65	64
11	68	65

4. With the help of t-test, find out whether significant difference exists in the mean of the following groups : 10

X	5	8	10	11	6	7	8	5	6	4
Y	4	5	6	9	5	4	3	4	5	5

SECTION B

Note : Answer any **four** of the following questions in
about 300 words each : $4 \times 6 = 24$

5. What is inferential statistics ? Describe estimation and point estimation. $2+4=6$
6. Calculate the mean, median and mode for the following sets of scores : $3+3=6$
- (a) 10, 12, 11, 10, 10, 13, 8, 14, 9
- (b) 14, 18, 14, 19, 14, 12, 14, 20
7. What is linear relationship ? Discuss the range of correlation with examples. $3+3=6$
8. Tabulate the following scores into a frequency distribution using class interval of 5. 6
- 64, 69, 84, 67, 61, 72, 72, 63, 71, 83, 70, 76, 76, 82, 72, 75, 77, 67, 72, 81, 68, 65, 85, 73, 67
9. Discuss the importance of Chi-square test. Why is it termed as “goodness of fit” test ? $3+3=6$

SECTION C

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

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|----------------------------------|----------|
| 10. Parametric Statistics | 3 |
| 11. Standard Deviation | 3 |
| 12. Scatter Diagram | 3 |

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