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BPC-004

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

00538

Term-End Examination

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 :* *2×10=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*

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 :* *4×6=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*

10. Parametric Statistics *3*

11. Standard Deviation *3*

12. Scatter Diagram *3*