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BPC-004(S)

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

Term-End Examination

June, 2017

00300

BPC-004(S) : STATISTICS IN PSYCHOLOGY

Time : 2 hours *Maximum Marks : 50*

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

SECTION A

Answer any ***two*** *of the following questions in about 500 words each :* *2×10=20*

1. Define Probability. Discuss the characteristics and properties of normal distribution. *3+7*

2. Describe the concept of inferential statistics. Explain the two types of inferential procedures. *3+7*

3. Compute Pearson's Product Moment Coefficient of Correlation with the help of the following data : *10*

Data 1 :	10	15	20	27	13	10
Data 2 :	2	4	5	10	5	4

4. A research was carried out to find if a significant difference exists in work motivation of two groups of employees. The scores obtained are given below. With the help of a t-test, find if a significant difference exists between the two groups. *10*

Group I : 2, 7, 9, 10, 7, 8, 2, 3

Group II : 10, 15, 9, 8, 3, 20, 10, 5

Critical values : 2·14 at 0·05 level of significance

2·98 at 0·01 level of significance

SECTION B

*Answer any **four** of the following questions in about 300 words each :* *4×6=24*

5. Discuss the arrangement of data and elucidate the grouped frequency distribution. *3+3*

6. Describe the properties and limitations of Range and Quartile Deviation. *3+3*

7. Compute Mean and Median for the following sets of data : *3+3*

(a) 18, 19, 23, 21, 22, 20, 12, 24

(b) 14, 18, 14, 19, 12, 14, 14, 20

8. Discuss the functions of Dispersion. Compute average deviation for the following data : *2+4*

35, 30, 36, 42, 39, 46, 44, 34, 38, 36

9. Differentiate between linear and non-linear relationship with suitable examples. *6*

SECTION C

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

10. Scatter Diagram *3*

11. Standard Deviation *3*

12. Kurtosis *3*