No. of Printed Pages : 2

BPC-004

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

03082

Term-End Examination

December, 2017

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. Define Statistics. Discuss the scope and use of statistics. **3+7**

2. Differentiate between parametric and non-parametric statistics. Discuss parameter estimation. **4+6**

3. Describe the functions of measures of central tendency. Compute mean, median and mode for the following data : **4+6**

   25, 30, 25, 25, 26, 40, 39, 50, 51

4. Differentiate between linear and non-linear relationship. Compute Spearman's Rho for the following data : **3+7**

Students

	A	B	C	D	E	F	G	H
Marks in Physics	64	65	72	80	68	62	50	45
Marks in Chemistry	65	68	74	81	72	64	60	59

SECTION - B

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

5. Describe the properties of range and average deviation. **3+3**

6. Tabulate the following scores into frequency distribution using class interval of 5. **6**
12, 13, 12, 13, 14, 10, 5, 6, 7, 8, 10, 10, 12, 12, 14, 15, 20, 31, 32, 45, 50, 41, 43, 44, 51, 62, 61, 65, 1, 2, 3, 12, 3, 4, 5, 6, 6, 8.

7. Compute standard deviation for the following data : **6**
20, 30, 12, 14, 16, 18, 20, 20, 30

8. Describe standard error and degree of freedom as fundamental concepts in determining the significance of the difference between means. **3+3**

9. Explain skewness with the help of suitable diagram. How would you compute skewness ? **4+2**

SECTION - C

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

10. Quartile deviation. **3**

11. Type I and Type II errors. **3**

12. Types of probability. **3**