Unique Paper Code: 12111102
Name of the Paper: Research Methodology and Data Processing in Psychology-I (OBE)
Name of the Course: BA (Hons.) Applied Psychology
Semester: I
Duration: 3 hours
Maximum Marks: 75 Marks

<u>Instructions for Candidates</u>

*Attempt a total of **FOUR** questions: **Two** questions from **Part A** and **two** from **Part B**.*

*All questions carry equal marks i.e. **18.75**.*

PART – A

1. Elaborate in detail about steps in a scientific research process, highlighting the differences in a qualitative research paradigm and quantitative research paradigm with relevant example.

2. Discuss in detail the experimental method and observation method, highlighting their advantages and limitations

3. (a) Discuss the ethical considerations in research.
   (b) Critically evaluate the case study method

PART- B

4. What do you understand by levels of measurement? Calculate Mean, Median and Standard Deviation of the following data set:

Class Interval	Frequency
190-194	3
185-189	4
180-184	6
175-179	9
170-174	7
165-169	5
160-164	2
155-159	1

5. (a) Find the correlation between two sets of memory span scores given below and discuss the nature and strength of association as per the value obtained.

X	16	13	12	11	10	10	9	7	13
Y	10	9	8	14	12	8	7	6	5

(b) Discuss the factors that affect correlation.

6. (a) Discuss in detail about Normal Probability Curve and its characteristics with graphical representation.

(b) Assuming a normal distribution with 320 scores, a test has a mean score of 225 and SD of 19.

    i. Compute the score that separates the lower 40% of the cases from the rest
    ii. Find the score limits of middle 73 %.
    iii. How many individuals lie above the score of 245?