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This question paper contains 2 printed pages]

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S. No. of Question Paper : 7649

Unique Paper Code : 2373010014

Name of the Paper : DSE : Research Methodology (NEP)

Name of the Course : B.Sc. (Hons.), Statistics under NEP-UGCF

Semester : VI

Duration : 3 Hours

Maximum Marks : 90

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt questions from all the sections as per the instructions.

Section-A

Attempt *all* parts of this question. Give answer of each part in about 100 words.

1. (a) Describe briefly the Extraneous variable along with example.
- (b) Define research problem. Give the suitable examples.
- (c) What is data processing ? Explain different steps involved in data processing.
- (d) Distinguish between confidence level and significance level.
- (e) Explain the primitive steps for good presentation.

5×6

P.T.O.

Section-B

Attempt any *two* questions. Give answer of each part in about **200** words.

2. (a) Describe, in brief, the layout of a research report, covering all relevant points.
(b) What is the Chi-square test ? Explain its significance in statistical analysis. 7½, 7½
3. (a) Describe in brief the important parametric tests used in context of testing hypotheses. How do such tests differ from non-parametric tests ? Explain.
(b) State the reason why sampling is used in the context of research studies. 7½, 7½
4. (a) What do you understand by a factorial design ? Illustrate with the help of examples.
(b) "The procedure of testing hypothesis requires a researcher to adopt several steps." In view of this statement which steps are adopted ? 7½, 7½

Section-C

Attempt any *two* questions. Give answer of each part in about **500** words.

5. Write short notes on :
 - (i) The techniques of writing report;
 - (ii) Bibliography and its importance in context of research report. 15
6. How does the case study method differ from the survey method ? Analyse the merits and limitations of case study method in sociological research. 15
7. What do you understand by sample survey ? Discuss different types of sampling techniques with suitable examples. 15