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NEPRM—1001—2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (NEP) (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

RESEARCH METHODOLOGY

SVECRM-401

(Monday, 18-12-2023)

Time : 10.00 a.m. to 12.30 p.m.

Time—2½ Hours

Maximum Marks—60

N.B. :— (i) Question No. 1 is compulsory.

(ii) Of the remaining solve any *three* questions

(iii) Calculator and log table is allowed.

1. Attempt any *three* of the following :

15

(a) Write a note on criteria of good research.

(b) Explain meaning of research design.

(c) Describe editing processing operation.

(d) Write an importance of ANOVA.

P.T.O.

2. Attempt the following :

- (a) Describe various steps involved in research process. 8
- (b) Explain descriptive and fundamental types of research. 7

3. Attempt the following :

- (a) What are variables ? Describe the types of variables. 8
- (b) What is sampling ? Explain in detail probability and non-probability sampling. 7

4. Attempt the following :

- (a) Calculate the mean, median and mode of the following data : 8

C.I.	F
160 – 164	2
155 – 159	4
150 – 154	3
145 – 149	7
140 – 144	12
135 – 139	8
130 – 134	4
125 – 129	6
120 – 124	2
115 – 119	2

(b) Discuss interview as a technique of data collection. 7

5. Attempt the following :

(a) Find the value of Chi square (χ^2) of the following data : 8

Fully Agree	Not Sure	Not Agree	Total
80	25	75	180

(b) What is meaning of the term hypothesis ? Explain in brief various forms of hypothesis ? 7

6. Write short notes on : 15

(a) Necessity of defining the research problem

(b) Characteristics of good sample design

(c) Collection of data through questionnaires.