

MASTER OF ARTS EXAMINATION, 2025
DEPARTMENT OF EDUCATION
1st Year, 2nd Semester
Subject Code : EDU/PG/2.4
METHODOLOGY OF EDUCATIONAL RESEARCH &
EDUCATIONAL STATISTICS - II
(COURSE -IX)

Time : Two Hours**Full Marks : 30**

1. Answer **any one** of the following : 12 × 1 = 12
- a. What is Cronbach's alpha (α). Explain the need and criteria of good research tool in social science research. 2 + 10 = 12
- b. A researcher conducted a study on the individual's level of education and their awareness of a government welfare scheme. Accordingly, it collects data from 250 people as given below.

Awareness/ Education Level	Illiterate	Primary	Secondary	Higher	Total
Aware	10	30	50	60	150
Not Aware	40	30	20	10	100
Total	50	60	70	70	250

Based on the data, identify whether awareness of a government welfare scheme is associated with education level? 12

2. Answer **any two** of the following (in about **200** words each) : 6 × 2 = 12
- a. Briefly discuss the advantages and disadvantages of Triangulation in Research. 6
- b. A fifth-grade surveyed a random sample of fifth graders in his school, asked them how many books per month they read and then gave them a vocabulary test. Scores are listed below.

No. of Books	12	11	11	10	10	8	7	7	6	6	5	5	3	2	1	0
Vocabulary Score	10	9	10	6	8	8	6	9	6	7	8	7	5	6	3	4

Find out if there is a significance relationship between the two variables at $\alpha = .01$ (two tailed)? 6

- c. Briefly discuss the characteristics of various scales of measurement. 6

- d. State the significance of review of related literature. Formulate three research objectives and three research questions for an educational research problem. 2+2+2=6
3. Answer **any three** of the following (in about **60** words each) : 2 × 3 = 6
- a. What is meant by Research and Publication Ethics?
 - b. What is meant by Analytical Induction?
 - c. Mention the different types of rating scales.
 - d. Mention two assumptions of t-test.
 - e. Define a standard score in statistics.
-