MASTER OF ARTS EXAMINATION, 2022

(1ˢᵗYear, 2ⁿˢ Semester)

EDUCATION

Course- IX

Methodology of Educational Research & Educational Statistics – II

Time: Two Hours   Full Marks: 30

1. Answer **any One** of the following: **12 × 1 = 12**

a) A researcher administered a test measuring attitude of students towards blended learning on 258 male and 242 female undergraduate (UG) level students. After the administration of the test, the administrator found the following data:

Gender	Highly Negative Attitude	Negative Attitude	Neutral Attitude	Positive attitude	Highly Positive attitude
Male	20	28	70	45	30
Female	25	37	65	35	25

Based on the above data, formulate a hypothesis and find out whether gender has any significant influence on the attitude of UG level students towards blended learning and interpret the result considering the critical value 9.488 at 0.05 level of significance.

(2+8+2)

b) Differentiate between Parametric and Non-parametric Statistics. Discuss in brief the properties of a normal probability curve and its importance in determining the use of various inferential statistics for hypothesis testing.   (4+5+3)

2. Answer **any two** in about 200 words each: **6×2= 12**

a) Briefly discuss the scales of measurement with suitable examples.   6

b) The following data were collected from two independent groups of 100 rural and 100 urban school students on an achievement test.

Locality	Mean	SD
Rural	18	5.07
Urban	20	4.5

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Test the significance of the difference between the mean of two groups at 0.05 level of significance and interpret. (4+2)

c) Write a short note on 'Research and Publication Ethics'. 6

d) Formulate a simple linear regression equation from the below dataset and calculate the value of Y_9 and interpret the result. 6

X	5	1	4	7	6	4	3	2	8
Y	10	4	5	11	15	6	5	0	?

3. Answer **any three** in about 60 words each: **2×3= 6**

   a) What are the different types of reliability tests?

   b) Mention any two importance of conducting literature review for research.

   c) Identify a research problem and formulate a research question for this problem.

   d) What is meant by content analysis in research?

   e) What is meant by PCA?

   f) What is meant by 'Triangulation' in research?