MA EDUCATION
SECOND SEMESTER
STATISTICS IN EDUCATION
MAE - 205

SET A

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1.30 hrs.

(Objective)

Full Marks: 35

Time: 15 mins.

Marks: 10

Choose the correct answer from the following:

1×10=10

1. In an NPC, the mean, median and mode is:
   a. 0
   b. 1
   c. 2
   d. 3

2. When the distribution curve is normal, the value of Kurtosis (Ku) is:
   a. 0.236
   b. 0.231
   c. 0.261
   d. 0.263

3. The full form of 'df' is:
   a. Decree of freedom
   b. Degree of freedom
   c. Decree of flexibility
   d. Degree of flexibility

4. The hypothesis which states that no difference exists between the scores of the variables are:
   a. Null hypothesis
   b. Research hypothesis
   c. Alternate hypothesis
   d. Statistical hypothesis

5. In linear correlation, the relationship between the two set of scores can be represented graphically in a:
   a. Projectile
   b. Curve
   c. Straight line
   d. Slope

6. Significance of the sample mean is an ....of the population mean:
   a. Indicator
   b. Assessment
   c. Guarantee
   d. Ideal estimate

7. 1 t test is also known as:
   a. Directional test
   b. Non- directional test
   c. 1 way test
   d. 2 way test

8. .... indicates perfect positive correlation:
   a. -2
   b. +1
   c. -1
   d. +2

9. The total area under the curve is arbitrarily taken to be:
   a. 10
   b. 100
   c. 1000
   d. 10000

10. The variables involved in Parametric tests must be measured in:
    a. Interval scale
    b. Both a and c
    c. Ratio scale
    d. Only b

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(Descriptive)

Time : 1 Hr. 15 Mins.   Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Discuss about divergence in normality.   5

2. The performance on an Intelligence test of 225 students of grade X is as   10
    follows:
    Mean = 90.8 and SD = 3.5
    Determine the confidence limits at the 0.05 and 0.01 levels for estimation
    of the population mean.

3. What is Pearson's correlation coefficient? Find out the Product Moment   2+8=10
    correlation coefficient:

Individuals	Scores in test X	Scores in test Y
A	15	60
B	25	70
C	20	40
D	30	50
E	35	50

4. Given the following data for two tests: 5+5=10
    History (X)   *Civics (Y)*
    Mean = 25   Mean = 30
    SD = 1.7   SD = 1.6
    Coefficient of correlation r = 0.95
    a) Predict the probable score in Civics of a student whose score in
        History is 40.
    b) Predict the probable score in History of a student whose score in
        Civics is 50.

5. Write short notes on: 5+5=10
    a) Chi-square as a test of goodness-of-fit.
    b) Assumptions of ANOVA

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