M. SC. (GEOGRAPHY)

(MSCGG)

Term-End Practical Examination

June, 2025

MGGL-002(Set-II) : METHODS OF GEOGRAPHICAL ANALYSIS : QUANTITATIVE AND QUALITATIVE

Time : 3 Hours   *Maximum Marks : 50*

Note : *(i)   Attempt any **five** questions.*

     (ii)   Marks are indicated against each question.

1. Marks of 130 students are given below. Find out the arithmetic mean of the following data : 10

Marks Obtained	No. of Students
0—10	08
11—20	12

21—30	14
31—40	16
41—50	18
51—60	17
61—70	13
71—80	12
81—90	11
91—100	09

2. The rainfall data of 90 days are given below. Calculate the standard deviation of the following data : 10

Rainfall (in cm)	No. of Days
0—10	13
11—20	10
21—30	15
31—40	21
41—50	16
51—60	07
61—70	08

3. Draw a scatter diagram by using the data given below :   10

Temperature (°C)	Ice-cream sale (in ₹)
38.5	52,000
38.4	51,000
38.1	51,000
37.6	47,000
36.4	50,000

4. The yield of wheat and percentage of area of wheat under irrigation of 10 places are given below. Give the linear form of relationship showing yield as the function of irrigation :

10

Place	Yield of Wheat (in kg/hectare)	Percentage of irrigated area of wheat
A	991	69.8
B	954	72.8
C	500	26.2
D	1529	99.7
E	1085	78.1
F	1378	78.2

G	1055	89.4
H	1002	83.2
I	1090	88.5
J	1084	96.5

5. Draw and label a Normal Probability Curve. Explain any *four* properties of normal probability curve.   10

6. Sample of 8 households from a tribal community of Region X and 12 households of the same tribal community from the Region Y were selected randomly. The agricultural land holding of those two samples are given below (in acres) :

   Region X : 5.7, 5.9, 6.3, 6.5, 6.8, 6.9, 7.1, 7.2

   Region Y : 5.5, 5.6, 5.8, 5.9, 6.1, 6.2, 6.5, 6.6, 6.9, 7.0, 7.1, 7.3

   Assuming the distribution of holdings in both the regions as normal, test whether the land holding patterns of the both the tribal communities differ regionally.   10

7. While conducting Focused Group Discussion (FGD) on climate change and its impact on rural livelihood at community level, discuss various steps involved and a set of questions that would be discussed during the FGD.   10

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