

No. of Printed Pages : 4 **MGGL-002(Set-II)**

**M. SC. (GEOGRAPHY) (MSCGG)**  
**Term-End Practical Examination**  
**December, 2024**

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

*Time : 3 Hours*

*Maximum Marks : 50*

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

(ii) *Marks are indicated against each question.*

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1. In the table given below the land holdings of 45 farmers are given. Find out the median : 10

<b>Land holding (hectares)</b>	<b>No. of Farmers</b>
5	2
6	4
7	7
8	11
9	8

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10	6
11	4
12	2
13	1

2. The mean monthly income of 20 families in a locality are given below. Calculate the first and third quartiles : 10

200, 150, 300, 1280, 253, 260, 233, 301, 315, 285, 276, 304, 308, 380, 319, 307, 4989, 100, 305, 403

3. The table given below depicts the invested capital and gained profit of a firm. Find out the Karl Pearson's coefficient of correlation : 10

Capital (in lakh ₹)	Profit (in lakh ₹)
10	2
20	4
30	8
40	5
50	10
60	15
70	14
80	21
90	23
100	35

4. Draw two regression lines with the help of the following data : 10

X	Y
1	9
2	8
3	10
4	12
5	11
6	11
7	14
8	14
9	15

where  $X = 0.95Y - 6.4$ ,  $Y = 0.95X + 7.25$ .

5. In a normal distribution of students the average marks in Geography is 60 with a standard deviation of 12. Find the interval of marks covering around 99.73% of students. Also, find out the percentage of student getting mark  $\geq$  Mean  $- 2$  S.D. 10

6. The mean population of a random sample of 500 villages of Aligarh district is 480 with S.D. of 15. The mean population of sample of 600 villages of Mathura district is 475 with a S.D. of 18. Is the difference between two sample means statistically significant ? 10
7. Explain various stages of conducting Participatory Action Research (PAR). Discuss some of the major challenges associated with doing PAR. Describe various strategies to manage these challenges. Elucidate your answer with the help of a research problem. 10

x x x x x x x