

**FYUGP/3rd Sem/Pr/24(NEP)**

**2024**

**Four Year Under Graduate Programme (FYUGP)**

**3rd Semester Examination (Under NEP)**

**(Session 2023-24)**

**GEOGRAPHY (Major)**

**Paper Code : GEOMJ MC-05B**

**[Climatology]**

**(Practical)**

**Set - I**

**Full Marks : 15**

**Time : Two Hours**

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

1. (a) Record the readings from the given Hygrometer and find out the relative humidity.
- (b) Draw a Climograph (After G. Taylor) of the Z station from the given meteorological data. 3+4

**P.T.O.**

( 2 )

Months	Jan	Feb	Mar	Apr	May	Jun
Wet-Bulb Temperature °F	38.3	42.8	51.3	61.3	68.9	72.0
Relative Humidity (%)	57	46	37	25	28	43

Months	Jul	Aug	Sep	Oct	Nov	Dec
Wet-Bulb Temperature °F	75.7	74.7	71.4	59.0	47.8	40.1
Relative Humidity (%)	63	68	60	47	52	59

2. From the given Indian Daily Weather map, interpret the condition of the sky over Indian sub-continent with proper illustrations. 5
3. Laboratory Notebook and Viva-voce. 1.5+1.5



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**2024**

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**GEOGRAPHY (Major)**

**Paper Code : GEOMJ SEC-03B**

**[Basics of Cadastral Surveying]**

**(Practical)**

**Set - I**

**Full Marks : 15**

**Time : Two Hours**

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers*

*in their own words as far as practicable.*

1. (a) Conduct a chain survey of a local playground. Prepare a detailed field book showing all measurements and offsets. Plot the survey at a scale of 1 : 250. Include at least 3 permanent features within the area. 2+3

*Or,*

**P.T.O.**

( 2 )

Carry out a closed traverse survey of a triangular plot using prismatic compass. Record :

- Fore and back bearings
- Angular corrections
- Plot the traverse at 1 : 300 scale 1.5+1.5+2

Or,

Using plane table radiation method, survey an area of 12m × 12m containing :

- Minimum 4 objects
- Two different types of features
- Scale 1 : 200
- Plot all radiating lines and distances 2+3

(b) Given the measurements of two rectangles (Rectangle 1 : 5.2 cm × 3.4 cm, Rectangle 2 : 4.8 cm × 3.1 cm) on a Guniya scale with a scale of 1 : 2500, calculate the total area in hectares. 2

2. (a) Digital planimeter readings on a map with scale 1 : 3500 :

- Reading 1 : 20.35 cm<sup>2</sup>
- Reading 2 : 20.42 cm<sup>2</sup>
- Reading 3 : 20.28 cm<sup>2</sup>

Planimeter constant : 1 cm<sup>2</sup> = 175 m<sup>2</sup>

( 3 )

Calculate : (a) Mean map area, (b) Ground area in sq. meter. 1+1.5

(b) The area of a playground drawn to a scale of 10 m to 1 cm was measured by a planimeter with an anchor point inside. The tracing arm being set to the natural scale. The initial and final reading were 6800 and 4500 vernier respectively. The zero of the dial passed the fixed index mark once reverse direction. Find the area of the playground given that one vernier unit = 10 sq.m. and the constant C = 20,000. 2.5

3. Laboratory Notebook and Viva-voce. 1.5+1.5

AB = 2.86 — 197° 30'  
BC = 2.58 — 309°  
CA = 3.22 — 68°