

M.Sc. 1st Semester Examination, 2024

GEOGRAPHY

(Hydrology)

PAPER—GEO-104

Full Marks : 25

Time : 1 hours

Answer **all** questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

GROUP – A

Answer any **two** questions : 2 × 2

1. Define basin lag time.
2. What is cascading system ?

3. What is the aridity index ?
4. What do you mean by homogeneity in time series data ?

GROUP – B

Answer any **two** questions : 4×2

5. Elucidate the importance of hydrologic frequency analysis.
6. State the application of rating curve.
7. How do soil texture and ambient moisture control infiltration ?
8. Write a short note on the role of radiation term in evaporation.

GROUP – C

Answer any **one** question : 8×1

9. Illustrate the methods of estimating stream discharge.

10. Describe the fundamental principle of change point analysis.

[Internal Assessment – 5 Marks]
