

Ex/SC/GEOG/PG/DSE/TH/15-1A/2025

MASTER OF SCIENCE EXAMINATION, 2025

(2nd Year, 1st Semester)

GEOGRAPHY

PAPER : SC/GEOG/PG/DSE/TH/15-1A

[Watershed Managment (GEOG-DE215T)

Time : Two Hours

Full Marks : 40

Answer **one** question from each Unit.

UNIT—I

(Watershed as a Unit of Study)

1. Prepare in brief proposals for integrated water resource management in accordance to the scale of watersheds. 10
2. Differentiate a watershed from a river basin. Explain how the feedback mechanisms of groundwater irrigation are affecting the stakeholders in India. 2+8=10

UNIT—II

(Fundamentals of Watershed Management)

3. What is a water deficit region? Discuss the challenges of mapping a watershed using geospatial technology. 3+7=10

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[Turn Over]

(2)

4. What is water stress? Elucidate the issues related to the sustainability of water resources in South Bengal.

3+7=10

UNIT—III

(Techniques of Watershed Management)

5. What are the major challenges to watershed management in arid regions? Discuss the modern irrigation techniques used in India. 4+6=10
6. What is meant by river interlinking? Discuss the significance of the river interlinking project and highlight the major concerning issues of the project. 3+7=10

UNIT—IV

(Watershed Management Initiatives)

7. What are the characteristics of an upland watershed? Critically assess the performance of DVC as a sustainable watershed management authority. 3+7=10
8. Why is watershed-based land use planning important? Explain the role of the CAPART scheme in rural development in India. 3+7=10

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