2024

M.Sc.

Fourth Semester

CORE - 11

GEOLOGY

Course Code: MGLC 4.11 (Environmental Geology & Climatology)

Total Mark: 70 Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT_I

- 1. Discuss the impact of urbanization on groundwater.
- 2. Discuss the water logging problems due to indiscrete construction practices.

UNIT-II

- 3. What do you understand by radioactive waste management? Discuss the geological method for locating a safe repository for the disposal of high level radioactive waste (HLRW).
- 4. What are the main factors contributing to an energy crisis? Explain how renewable energy resources serve as viable alternatives to traditional fossil fuels.

UNIT-III

- 5. Discuss the causes of earthquakes. Add a note on the classification of earthquakes based on the depth of focus.
- 6. What is seismic hazard? Discuss the influence of neotectonics in seismic hazards assessment.

UNIT-IV

7.	Elaborate on the classification of clouds based on Howard's system.	14
8.	(a) Discuss the zonal distribution of pressure.(b) How does Earth's orientation with respect to the Sun affect insolation?	7 7
	UNIT-V	,
9.	Discuss in detail the origin of Indian monsoon.	14
10.	What are weather fronts? Explain the polar-front theory of midlatitude cyclone formation.	14