

**2024**  
**SRMUJ**  
**3<sup>rd</sup> Semester Examination**  
**M.Sc.**  
**GEOGRAPHY**  
**GEO-C-301**  
**HAZARD AND DISASTER MANAGEMENT(CBCS)**

**Full Marks: 40****Time: 2 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. Answer any four of the following questions: 2x4
- a) Define Hazard.
  - b) Write the protective role of mangroves in mitigation of storm.
  - c) What are the criteria for defining heatwave according to IMD?
  - d) What do you mean by disaster preparedness?
  - e) What do you mean by climatic refugee.
  - f) What is vulnerability?
2. Answer any five of the following questions: 4x5
- a) How does ENSO phenomenon impact the Indian Summer Monsoon?
  - b) Explain how sea level rise poses a threat to island countries, highlighting its impact on their coastal environment.
  - c) Analyze the role of climate change in intensifying coastal hazards in West Bengal.
  - d) Assess the differences in impacts of fresh-water and saline-water floods.
  - e) Describe the socio-economic impacts of cyclone *Aila* on coastal regions of West Bengal
  - f) Discuss the social dimensions of Hazard Risk Reduction (HRR).
  - g) Highlight the major initiatives taken by the Indian government to manage drought.
  - h) Write the implication of Drought Vulnerability Index (DVI) used in assessing drought-prone areas of India.
- 3) Answer any two of the following questions: 6x2
- a) Discuss the suitable measures taken for landslide mitigation in the Darjeeling Himalayan region.
  - b) Analyze the role of landscape factors in riverbank erosion.
  - c) How do early warning system and disaster preparedness help in mitigating the impact of Tropical Cyclones in Indian context?
  - d) How does desertification impact biodiversity and human livelihood?