

**M. SC. GEOGRAPHY 2<sup>nd</sup> YEAR 2<sup>nd</sup> SEMESTER EXAMINATION 2022**

**Subject: Environmental Geomorphology**

**Course Code: SC/GEOG/PG/CORE/219T**

**Time: Two Hours**

**Full Marks: 50**

Answer any **four questions** selecting one from each unit

**Unit-I: Fundamentals of Environmental Geomorphology**

1. Define Environmental Geomorphology. What do you mean by Applied Geomorphology? Explain how it can be used in urban environmental management with examples. 2+2+6
2. What do you mean by urban geomorphology? Bring out its domain. How does urban land use induce urban flooding? 2+3+5

**Unit-II: Society and Environmental Hazards**

3. What is the difference between hazard and disaster? What do you mean by hazard preparedness? Explain paradox in the context of hazard management. 3+2+5
4. Define vulnerability. Enumerate the factors of vulnerability. Is drought a hazard or a disaster? Justify your answer. 2+5+3

**Unit-III: Assessment and Management of Hazards**

5. What is meant by hazard mitigation? Explain the landslide hazard zonation technique by any method. 3+7
6. What is meant by geomorphic hazard? Assess the role of geomorphological knowledge in hazards management with special reference to flood hazard. 2+8

**Unit-IV: Hazards in Deltaic Bengal**

7. Explain the reasons for arsenic contamination in Bengal Delta? Mention the standard for identifying arsenic pollution levels as per WHO and IMA. 8+2
8. Define eutrophication. Mention the causes of nitrate contamination. What are the environmental impact of nitrate contamination? 2+5+3

**Internal Assessment**

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