

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

5. What is disaster management cycle? Examine the role of geomorphological knowledge in hazard assessment. 3+7
6. How does risk assessment help in disaster mitigation? Explain the procedure for making probabilistic seismic hazard map. 3+70

**Unit IV: Hazards in Deltaic Bengal**

7. Why are some parts of West Bengal more vulnerable to flood than others? Elucidate the mechanism of riverbank erosion with sketches. 4+6
8. Highlight the mitigative measures of arsenic contamination in the Gangetic plain of West Bengal. Explain the various structural measures applied to reduce coastal erosion in India. 4+6

**Internal Assessment****10****M. SC. GEOGRAPHY EXAMINATION, 2023**

( 2nd Year, 2nd Semester )

**ENVIRONMENTAL GEOMORPHOLOGY****PAPER:EX/SC/ GEOG/PG/CORE/TH/19**

Time : Two Hours

Full Marks : 50

**Unit I: Fundamentals of Environmental Geography**

1. Explain the scope and content of Environmental Geomorphology? Identify the major Morphogenetic regions. 6+4
2. 'Human intervention brings about changes in the environment' — Justify the statement with suitable examples from India. 10

**Unit II: Society and Environmental Hazards**

3. 'Disasters are not natural' – explain with suitable illustrations. Define Risk in the context of disaster management. What are the various modes for enhancing disaster resilience? 4+2+4
4. Why is it not easy to transit from Brown Technology to Green Technology? Bring out the relationship between temporal exposure to hazards and severity of vulnerability. 4+6

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