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MGGE-003

M. SC. GEOGRAPHY

(MSCGG)

Term-End Examination

June, 2026

**MGGE-003 : NATURAL HAZARDS AND
DISASTER MANAGEMENT**

Time : 3 Hours

Maximum Marks : 100

Note : (i) *Attempt all Sections.*

(ii) *Marks are indicated in each Section.*

Section—A

1. Answer any *five* questions in about
150 words each : 5×4=20
- (i) Mention any *eight* elements of disaster management.
- (ii) Discuss physical vulnerability in brief.
- (iii) Describe in brief the *four* types of seismic waves.

- (iv) Distinguish between 'debris flow' and 'earth flow' ?
- (v) Describe in brief urban flooding with suitable example.
- (vi) Write a short note on any *four* Government Laws for industrial safety in India.
- (vii) Briefly discuss the need of integration of Indigenous knowledge system with scientific knowledge system for disaster risk reduction.

Section—B

2. Answer any *five* questions in about **250** words each : 5×6=30

- (i) Discuss any *three* social impacts of hazards and disasters.
- (ii) Describe the relationship among hazard, vulnerability and risk.
- (iii) Explain in brief the distribution of *three* earthquake prone zones of the world with their locations and characteristics.

- (iv) What is landslide ? Discuss its consequences in brief.
- (v) Discuss the role of Indian Meteorological Department (IMD) in floods mitigation.
- (vi) Describe any *three* high risk zones of India for industrial and chemical disasters.
- (vii) Discuss any *two* case studies involving community based disaster management in India for effective disaster preparedness.

Section—C

Note : Answer any *five* questions in about
500 words each. 5×10=50

- 3. Describe in detail the institutional arrangements for disaster governance in India.
- 4. What are the major causes for the occurrence of Tsunami ? Discuss in detail with examples.

5. Explain the *four* types of droughts with suitable examples.
6. Write a detailed account on tropical cyclones.
7. Discuss the Post-Disaster Need Assessment with its significance, key dimensions and characteristics.
8. Explain different components of Community Based Disaster Management in detail.
9. What are avalanches ? Discuss the mitigation and preparedness measures for avalanches.

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