

No. of Printed Pages : 6

MGGE-003

M. SC. (GEOGRAPHY)

(MSCGG)

Term-End Examination

December, 2025

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

Time : 3 Hours

Maximum Marks : 100

Note : *All Sections are compulsory. Q. Nos. 1 and 2 are compulsory. Answer any five questions out of seven (Q. No. 3 to Q. No. 9) given in Section C. Marks are indicated against each Section.*

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P. T. O.

Section-A

1. Answer any *five* of the following questions in about **150** words each : 5×4=20

- (i) Define and differentiate between hazard and disaster.
- (ii) Describe in brief physical and socio-economic vulnerability to hazards and disasters.
- (iii) What is an avalanche ? Describe in brief any *two* types of avalanche.
- (iv) Write a short note on “Glacial Lake Outburst Flood (GLOF)”.
- (v) Explain in brief any *two* mitigation measures to address rail accidents.

(vi) Describe any *four* characteristics of effective Post-Disaster Need Assessment.

(vii) Why is there a need for integrating Indigenous Knowledge System (IKS) with scientific knowledge system ? Explain.

Section-B

2. Answer any *five* of the following questions in about **300** words each : $5 \times 6 = 30$

(i) Explain in brief any *four* economic impacts of hazards and disasters.

- (ii) Explain the *six* steps in a disaster risk assessment.
- (iii) Describe any *two* mitigation measures for landslides and avalanche each.
- (iv) State any *six* causes of dam failures that leads to flood.
- (v) Explain in brief any *six* causes of rail accidents.
- (vi) State any *three* objectives and any *three* activities of recovery and reconstruction phase of post-disaster management.
- (vii) Explain any *three* case studies of traditional knowledge related to earthquake resilient housing.

Section-C

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

3. Discuss the major objectives and salient features of National Policy on Disaster Management, 2009.
4. Explain in detail the disaster management related to earthquake.
5. Discuss in brief the trends and patterns of cyclones in India. Explain any *four* hazard mitigation measures related to cyclone.
6. Discuss in detail any *four* wildfire hotspots in the world.

7. What are epidemic and pandemic ? Explain any *three* mitigation strategies for addressing the impacts of epidemics and pandemics.
8. Discuss in detail any *five* components of Community Based Disaster Management.
9. Describe any *three* types of droughts. Discuss in detail drought hotspots in India.

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