

No. of Printed Pages : 5

MGGE-003

M. SC. (GEOGRAPHY) (MSCGG)

Term-End Examination

June, 2025

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

Time : 3 Hours

Maximum Marks : 100

Note : *All Sections are compulsory. Marks are indicated against each Section. Question Nos. 1 and 2 are compulsory. Answer any five questions out of seven questions 3 to 9 given in Section C.*

Section-A

1. Answer any five questions in about 150 words each : 4×5=20
 - (i) Describe in brief any four key attributes of hazards.

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- (ii) Define vulnerability. Describe any *two* components of vulnerability in brief.
- (iii) What is an earthquake ? Briefly describe any *two* steps followed in locating the earthquake.
- (iv) What is loose snow avalanche ? State any *two* external factors that triggered loose snow avalanche.
- (v) Describe in brief urban floods and fluvial floods.
- (vi) Write a short note on the relationship between climate change and pandemics.
- (vii) Explain in brief any *four* significances of need assessment in post-disaster situation.

Section—B

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

- (i) Explain the differences between hazards and disasters by giving any *six* points for each.
- (ii) Discuss the relationship among hazard, vulnerability and risk.
- (iii) Describe any *three* direct and indirect impacts each of earthquake.
- (iv) Explain in brief any *three* natural and anthropogenic causes of landslides each.
- (v) State any *six* structural and non-structural measures each for flood mitigation.
- (vi) Write a short note on “Fire-Adaptive Community Planning”.
- (vii) Discuss in brief any *three* mitigation measures and preparedness for addressing issues arising out of pandemics.

Section—C

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

3. Discuss the salient features of Sendai Framework for Disaster Risk Reduction, 2015.
4. Explain in detail the strategies for mitigation and preparedness required for Tsunami.
5. Discuss the role of Indian Meteorological Department (IMD) and National Disaster Management Authority (NDMA) in disaster mitigation related to cyclones in India.
6. Describe in detail the trends and distribution of road accidents in India.
7. Give a detailed discussion on any *five* operational steps involved in Community Based Disaster Management.

8. What is indigenous knowledge system ?
Describe the role and importance of indigenous knowledge system for disaster risk reduction.
9. Explain various causative factors responsible for industrial hazards.

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