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**Question Paper Code : 10750**

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2025.

Fifth/Seventh/Eighth Semester

GE 8071 — DISASTER MANAGEMENT

(Common to : Aeronautical Engineering/Aerospace Engineering/Agricultural Engineering/Automobile Engineering/ Biomedical Engineering/Civil Engineering/ Computer Science Engineering /Computer and Communication Engineering/Electrical and Electronics Engineering/Electronics and Communication Engineering/Electronics and Instrumentation Engineering/Electronics and Telecommunication Engineering/Environmental Engineering/Geoinformatics Engineering/Industrial Engineering/Industrial Engineering and Management/Instrumentation and Control Engineering/Manufacturing Engineering/Marine Engineering/Material Science and Engineering/Mechanical Engineering/Mechanical Engineering (Sandwich)/Mechanical and Automation Engineering/Mechatronics Engineering/Medical Electronics/Petrochemical Engineering/Production Engineering/Robotics and Automation/Safety and Fire Engineering/Bio Technology/Chemical Engineering/Chemical and Electrochemical Engineering/Fashion Technology/Food Technology/Handloom and Textile Technology/Information Technology/Petrochemical Technology/Petroleum Engineering/Pharmaceutical Technology/Plastic Technology/Polymer Technology/Textile Chemistry/ Textile Technology )

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define vulnerability.
2. Brief on urban disasters.
3. Define “Culture of safety.”
4. Write a note on Early warning system.
5. List out the factors affecting vulnerability.
6. Define “Indigenous knowledge.”

7. Brief on vulnerability profile.
8. Brief on disaster Management policy.
9. Define "Hazard zone."
10. What is space-based inputs on disaster?

PART B — (5 × 13 = 65 marks)

11. (a) Explain the types of hazards and its impact on society in detail.

Or

- (b) Dramatize the importance climate change and mitigation plans of United Nations agencies.

12. (a) Critique on the structural and non-structural measures on disaster preparedness.

Or

- (b) Evaluate the advisory agencies on early warning in India.

13. (a) Evaluate the impact of development plans and changes in land use.

Or

- (b) Describe climate change adaptation and role of the Intergovernmental Panel on Climate Change (IPCC).

14. (a) Summarize and evaluate the institutional arrangements on mitigation and preparedness on disaster.

Or

- (b) Critically evaluate the process of disaster damage assessment.

15. (a) Explain earthquake vulnerability assessment of buildings and structure.

Or

- (b) Describe the impact of coastal flooding, and how to do storm surge assessment.

PART C — (1 × 15 = 15 marks)

16. (a) “Hazards and vulnerability are constantly shaped by dynamic and complex socio-economic and ecological processes. They are compounded by stresses felt within individual societies.” Evaluate.

Or

- (b) Emergency Management Information Systems (EMIS) are vital tools for planning, coordinating and evaluating disaster response and recovery efforts in developing countries like India. However, EMIS are not only useful for reacting to emergencies, but also for preventing or reducing their impact. Critique.

