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Question Paper Code : 60745

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2026

Fifth/Seventh/Eighth Semester

Civil Engineering

GE8071 — DISASTER MANAGEMENT

(Common to Aeronautical Engineering/Aerospace Engineering/Agriculture Engineering/Automobile Engineering/Biomedical Engineering/Computer Science and 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 the term disaster.
2. Give two various forms of disaster.
3. Define Early Warning System.
4. Mention various aspects of Climate Change.
5. State Vulnerability Index

6. Define Risk Management
7. List the different types of Wastes
8. Mention the two effects of hear waves.
9. Compare Earth quake over Earth tremor.
10. State the term fluvial.

PART B — (5 × 13 = 65 marks)

11. (a) (i) Discuss the impact of landslide with example. (7)
- (ii) Discuss the classification of drought. (6)

Or

- (b) (i) Draw a detailed action plan to mitigate the effect of climate change both at global and local level. (7)
- (ii) Enumerate the impact of urban disasters. (6)
12. (a) Write the role and responsibilities of community, panchayat, urban and local bodies with reference to Disaster management Pre disaster during disaster and post disaster. (13)

Or

- (b) (i) Discuss the role played by state disaster management authority. (7)
- (ii) Explain the concept of preparedness in NDA. (6)
13. (a) Discuss the indigenous knowledge and appropriate technology can be used in mitigating the effect of climate change. (13)

Or

- (b) Discuss in detail the different impact created by development projects like Dam and embankment construction. (13)
14. (a) Discuss the components of disaster relief explain with example. (13)

Or

- (b) (i) Narrate the concept of disaster damage assessment. (7)
- (ii) Discuss the vulnerability profile of India. (6)

15. (a) Explain the role played by Geographical information system and information technology in disaster management. (13)

Or

- (b) Discuss coastal flooding and pluvial flooding along with mitigation field work by NDA.

PART C — (1 × 15 = 15 marks)

16. (a) Analyse a case study on a recent cyclone mitigation done by NDA. (15)

Or

- (b) Design a Disaster Relief Plan with reference to food, sanitation, shelter, health, waste management and institutional arrangements for Mitigation Response and preparedness. (15)

