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Question Paper Code : 80743

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2024.

Fifth/Seventh/Eighth Semester

Civil Engineering

GE 8071 – 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 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 in disaster.
2. List the Don't's during disasters.
3. Infer the term disaster risk reduction.
4. List the need for early warning system.
5. Define differential impacts of disaster.

6. State the relevance of indigenous knowledge.
7. Enlist the application of spatial data.
8. State the Role of GIS.
9. Define hazard zone.
10. Identify the disaster which are man-made.

PART B — (5 × 13 = 65 marks)

11. (a) Elaborate on the classification of risks in detail.

Or

- (b) Discuss the impacts of urban disasters in detail.

12. (a) Describe the roles of culture in disaster.

Or

- (b) Critically evaluate the role of advisories from appropriate climate agencies.

13. (a) Explain the mitigation and adaptation to climate change.

Or

- (b) Discuss in detail about appropriate technology and local resources with example.

14. (a) Evaluate the disaster management policies in detail.

Or

- (b) Illustrate the disaster damage assessment process.

15. (a) Discuss how earthquake vulnerability assessment is conducted.

Or

- (b) Describe forest fire and its impact in detail.

PART C — (1 × 15 = 15 marks)

16. (a) Analyse the role of different types of media in disaster management.

Or

- (b) Discuss the recent measures initiated in disaster management by the Government of India departing from the earlier reactive approach.