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Question Paper Code : 40662

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Fifth/Seventh Semester

Aeronautical Engineering

GE 8071 — DISASTER MANAGEMENT

(Common to Aerospace Engineering/Agriculture Engineering/Automobile Engineering/Biomedical Engineering/Civil 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/Biotechnology/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 hazard.
2. Describe the pandemic briefly.
3. Outline the disaster risk reduction.
4. What is an early warning system?
5. List out the impact of development projects.

6. Write a short note on indigenous knowledge.
7. Describe GIS and spatial data.
8. Explain vulnerability profile.
9. Describe drought assessment.
10. Explain Root cause analysis of Disasters.

PART B — (5 × 13 = 65 marks)

11. (a) Illustrate the classification of hazards in detail.

Or

- (b) Dramatize the social, political and economic impacts of disasters.

12. (a) Describe the roles and responsibilities of the Panchayat Raj institution in disaster.

Or

- (b) Critically evaluate the disaster framework at the state and central levels.

13. (a) Infer the relationship between development projects and disasters in detail.

Or

- (b) Appraise how indigenous knowledge and local resources can benefit the disaster management plans?

14. (a) Describe the disaster management act and policy in detail.

Or

- (b) Summarize how disaster damage assessment is conducted.

15. (a) Summarize how storm surge assessment is conducted.

Or

- (b) Describe manmade disaster in detail.

PART C — (1 × 15 = 15 marks)

16. (a) Will the actions we take today to be enough to forestall the direct impacts of climate change? Or is it too little too late?

Or

- (b) Evaluate the institutional arrangements for preparedness, response and recovery. Predict the role of GIS and information technology in helping the government.
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