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Question Paper Code : 20688

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.

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/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. Differentiate Vulnerability and Hazard.
2. List out the reason for the risk concentration more in Urban.
3. Define Mitigation.
4. Write any four roles of DRR with reference to Local bodies.
5. Give any four impacts of Disaster on Developmental Projects.

6. List out the examples for CCA strategies.
7. What is NCRMP?
8. Distinguish between Response and Recovery.
9. What is meant by Drought Assessment?
10. Differentiate Fluvial and Pluvial Flooding.

PART B — (5 × 13 = 65 marks)

11. (a) Explain in detail on causes and Impact of Earthquake with suitable Example.

Or

- (b) What do you understand by Psychosocial Impact of Disaster? Discuss in detail

12. (a) Explain in detail on Disaster management plan and Phases with suitable diagram.

Or

- (b) Elaborate the Roles and Responsibilities of SDMA in DRR and discuss with case study.

13. (a) Discuss in detail on the Impact of Disaster on the development of Dam projects and explain with case study.

Or

- (b) What is IPCC? Elaborate the IPCC Scenario in the Context of India with special reference to Agriculture and Health.

14. (a) Describe in detail on disaster -Vulnerability profile of India with case history and Management Plan.

Or

- (b) Explain the significant role of GIS in Disaster Risk management. How is it being used in India? Give a suitable case study.

15. (a) Elaborate the methodology for the assessment of Storm Surge? Explain with a example.

Or

- (b) What are all the various impact of Forest fire? Explain with Case studies.

PART C — (1 × 15 = 15 marks)

16. (a) Explain in detail on the causes and impact of landslides. Discuss with a case study and remedial measures carried out.

Or

- (b) How remote sensing technology helps in disaster mitigation and management? Explain the methodology adopted for the above and elaborate with case study.