Question Paper Code : 71935

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

Seventh Semester

Civil Engineering

GE 6083 — DISASTER MANAGEMENT

(Common to Seventh Semester Automobile Engineering, Electronics and Instrumentation Engineering, Industrial Engineering, Instrumentation and Control Engineering, Mechanical Engineering, Robotics and Automation Engineering, Biotechnology, Petrochemical Technology, Textile Technology and also common to Sixth Semester Computer Science Engineering, Production Engineering and Information Technology)

(Regulations 2013)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   Define Disaster and how it differs from Calamity.

2.   Write any four atmospheric and geological disasters.

3.   What is disaster cycle?

4.   What is early warning system?

5.   List different factors affecting vulnerability.

6.   What is Global warming and Green House Effect?

7.   What is Ei Nino Effect?

8.   List the components of disaster relief.

9.   How a forest fire is caused?

10. What is tsunami?

PART B — (5 × 16 = 80 marks)

11. (a) Classify the disasters. Write in detail the environmental and socioeconomic and political impact of disaster with special reference to earth quake landslide and floods. (16)

Or

(b) Write the various precautionary measures to be taken during the earth quake, landslide, fire and tsunami. (16)

12. (a) Write a detailed disaster mitigation and management plan with reference to any atmospheric and geological disasters. (16)

Or

(b) Write the Organizational structure and function of State and Central Disaster Management Authority. (16)

13. (a) Write an essay on climate change and its socio economic impacts and how the same can be mitigated. (16)

Or

(b) Write the various environmental impacts and the mitigation measures with reference to dams, embankments and changes in land use. (16)

14. (a) Work out a detailed road map for the disaster relief measures to be taken with reference to water, food, sanitation, shelter, health and waste management in case of any disasters. (16)

Or

(b) How the Geographic Information System and Information Technology can be effectively employed for disaster and risk management in India? (16)

15. (a) Write a detailed disaster management and mitigation plan for coastal flooding storm surge and fluvial and pluvial flooding. (16)

Or

(b) Write a case study with reference to earth quake vulnerability assessment of buildings and infrastructure and forest fire. (16)

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