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Question Paper Code : 41173

02/05/18

FN

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Sixth/Seventh/Eighth/Ninth Semester

Civil Engineering

GE 6083 – DISASTER MANAGEMENT

(Common to : B.Arch/Mechanical Engineering (Sandwich)/Aeronautical Engineering/Agriculture Engineering/Automobile Engineering/Biomedical Engineering/Civil Engineering/Computer Science and Engineering/Electrical and Electronics Engineering/Electronics and Communication Engineering/Electronics and Instrumentation Engineering/Environmental Engineering/Geoinformatics Engineering/Industrial Engineering/ Industrial Engineering and Management/ Instrumentation and Control Engineering/Manufacturing Engineering/Marine Engineering/Materials Science and Engineering/Mechanical Engineering/ Mechanical and Automation Engineering/Mechatronics Engineering/Medical Electronics/Petrochemical Engineering/Production Engineering/Robotics and Automation Engineering/Bio Technology/Chemical Engineering/Chemical and Electrochemical Engineering/Fashion Technology/Food Technology/Information Technology/Petrochemical Technology/Petroleum Engineering/Pharmaceutical Technology/Plastic Technology)

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Distinguish hazards and vulnerability.
2. Classify the different types of disaster.
3. Explain about early warning system in disaster.
4. Tell the roles and responsibility of national disaster management authority (NDMA).
5. Tell the four dimensions that challenge the human being in disaster.
6. Explain the term 'Displaced persons'.

41173



7. Explain the objective of IPCC.
8. Tell the objective of disaster damage assessment.
9. Give any two recent natural disasters in India.
10. List down the different types of floods.

PART – B

(5×13=65 Marks)

11. a) Draw the disaster management cycle and explain every stage in it.
(OR)
b) What is to be done during and after the earthquake.
12. a) Explain the role and responsibility of various agencies in disaster mitigation and management.
(OR)
b) Explain the structural and nonstructural mitigation measures for various types of disasters.
13. a) How disaster affect the developmental activities in a society.
(OR)
b) Describe the factors affecting vulnerability in Disaster Risk Management.
14. a) How will you assess the loss and damage to human life in disasters ?
(OR)
b) Enumerate the Possible Risk Reduction Measures in flooding.
15. a) Explain the Mitigation Measures for your home to prevent it from disaster.
(OR)
b) Describe any flooding disaster that occurred in India and write the various lessons that you have learned from it.

PART – C

(1×15=15 Marks)

16. Considering Bhopal Gas disaster as a case study. Explain the applicable principles of disaster management to mitigate the effect of such disaster in future.

Reg. No. :

Question Paper Code : 53122



B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Sixth/Seventh/Eighth/Ninth Semester

Civil Engineering

GE 6083 – DISASTER MANAGEMENT

(Common to all branches)

(Regulation 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is a Disaster?
2. What is a Pandemic?
3. Explain the goals of disaster management.
4. What are the phases of the disaster life cycle?
5. Define Vulnerability in disaster management.
6. What is IPCC?
7. Write a note on the vulnerability profile of India.
8. What is disaster relief?
9. What is a fluvial flood?
10. Give few examples of man-made disaster.

PART B — (5 × 13 = 65 marks)

11. (a) What are the different types of natural disasters? Explain in detail.

Or

- (b) Disaster impacts differential groups at various levels. Justify.

12. (a) What are the five key components of effective disaster management?

Or

- (b) Analyse how structural and non structural components are used in risk reduction strategies.

13. (a) Explain the importance of indigenous knowledge. How is it helpful in disaster management?

Or

- (b) Critically examine the various factors affecting vulnerability in disaster risk management.

14. (a) Write a note on the Disaster Management Act, 2005.

Or

- (b) What is the purpose of damage assessment? What factors influence the assessment methods and the tools used to assess damage?

15. (a) What was the type of flood that affected Kerala recently? Critically evaluate the risk reduction strategies followed during the disaster.

Or

- (b) Explain the different types of man-made disasters with special reference to Bhopal gas leak tragedy.

PART C — (1 × 15 = 15 marks)

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

Or

- (b) Evaluate the risk reduction strategies followed by the Government of India during times of disaster.