

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]  
(2064)

14601

**B. Tech 2nd Semester Examination**

**Disaster Management and Environmental Science (N.S.)**

**HS-101**

**Time : 3 Hours**

**Max. Marks : 100**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt five questions in all selecting one question from each section A, B, C and D. Question No. 9 is Compulsory. All questions carry equal marks. Use of non-programmable calculator is allowed.

**SECTION - A**

1. (a) What is meant by Disaster Management? What are the different stages of Disaster management?  
(b) What is the cause for Earthquakes? How they are measured? Which parts of India are more vulnerable to frequent earthquakes? (2×10=20)
2. (a) Describe the necessity of Risk Identification and Assessment Surveys while planning a project.  
(b) What types of warning systems are available to alert the people in the case of following disasters:  
(i) Floods (ii) Cyclones (2×10=20)

**SECTION - B**

3. (a) Discuss the various types of natural disasters and highlight the specific efforts to mitigate disasters in India.  
(b) Explain various community based disaster management. (2×10=20)

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4. (a) Name the voluntary agencies and explain their role in disaster management.
- (b) With reference to disaster mitigation, explain the function of
- (i) Management Information System
  - (ii) Decision Support System (2×10=20)

### SECTION - C

5. (a) What is the need of Eco-friendly technologies? Name any five Eco-friendly technologies that have improved the quality of life.
- (b) State the major causes of air pollution. Give different measures to improve its ill effects. (2×10=20)
6. (a) Explain the effect over exploitation of following resources on the environment:
- (i) Forest Resources
  - (ii) Ground Water (2×5=10)
- (b) What is the nuclear energy? What are the principal hazards associated with it? (4+6=10)

### SECTION - D

7. (a) What are greenhouse gases and how they cause global warming? State the possible impact of global warming.
- (b) Define energy crisis. Enumerate the causes of energy crisis. (2×10=20)
8. (a) State at least five reasons for the Global environmental crisis?
- (b) Explain how does carbon dioxide cause global warming? (2×10=20)

**SECTION - E**

9. Answer briefly the following questions:

- (a) What is the level of awareness of disaster risk factors at the community level?
- (b) List all the governmental organisations that are involved in disaster management.
- (c) What are the factors that affect people's vulnerability to disasters?
- (d) Name at least five roles to be played by insurance in natural disaster relief?
- (e) What is the purpose of Management Information System (MIS)?
- (f) What is the main cause of ozone depletion?
- (g) Name any two contaminants that cause soil pollution.
- (h) Define "Noise Pollution".
- (i) Name four major gases that contribute to green house effect.
- (j) Name any two chief sources of water pollution.

(10×2=20)