

[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)