

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]
(2063)

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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) Specify the role played by an Engineer in the process of Disaster Management. **(2×10=20)**
2. (a) Differentiate Natural Disasters and Man-made Disasters with examples.
- (b) How the inmates of a multistory building are to be evacuated in the event of a Terrorist Attack. **(2×10=20)**

SECTION - B

3. (a) Explain disaster migration. Describe "Warning" and explain the various steps involved in it.

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- (b) What is disaster preparedness? Explain. **(2×10=20)**
- 4. (a) GIS is a powerful tool that can support decision making in all phases of the disaster management cycle. Explain.
- (b) List down the various Rural Development Programmes that can be initiated for disaster reduction and mitigation. **(2×10=20)**

SECTION - C

- 5. (a) Rapid technologies growth has led to resource depletion. Give your vies with example in support or against this statement.
- (b) What is role of individual in conservation of natural resources for sustainable life-style **(2×10=20)**
- 6. (a) What are Non-renewable Resources? Explain giving examples how are they formed? **(4+6=10)**
- (b) Explain the effect over exploitation of following resources on the environment:
(i) Forest Resources (ii) Surface Water. **(2×5=10)**

SECTION - D

- 7. (a) Explain the effect of climate change on
 - (i) Economy
 - (ii) Natural Resources **(2×5=10)**
- (b) What is environment? List various environmental issues faced at global level. **(2+8=10)**

8. (a) What are the major environmental problems caused by development and industrial growth.
- (b) From a human perspective, ozone is both helpful and harmful; Comment. **(2×10=20)**
9. Answer briefly the following questions:
- (a) Define natural disaster. List the types of natural disaster.
- (b) Explain about holistic development planning.
- (c) Differentiate between Hazard and Risk.
- (d) What are the factors that affect people's vulnerability to disasters?
- (e) Name at least five roles to be played by insurance in natural disaster relay?
- (f) What is the purpose of Management Information System (MIS)?
- (g) What do you understand by Decision Support System (DSS)?
- (h) Mention the 5 phases of disaster management programme.
- (i) Name at least five effects of earthquake?
- (j) Define Tsunamis. **(10×2=20)**