16017

[Total No. of Questions - 9] [Total No. of Printed ges - 2] (2126)

16017(D) E O DEC

B. Tech 1st Semester Examination

Disaster Management and Environmental Science (NS)

HS-101

Time: 3 Hours

Max. Marks: 100

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

Note: Candidates are required to attempt five questions in all selecting one question from sections A, B, C, D and all the subparts of question in section E.

SECTION - A

- (a) Identify the different types of disasters and describe three natural disasters which you are familiar with.
 - (b) Identify and describe three man-made disasters you have learnt about. (2×10=20)
- 2. (a) Explain what you understand by the term Vulnerability.
 - (b) Describe the various tools to reduce Vulnerability.
 - (c) Differentiate between a hazard and a disaster.
 - (d) Differentiate between Risk and Disaster risk. (4×5=20)

SECTION - B

- 3. Step by step explain the following mechanisms:
 - (a) Cyclone forecasting.
 - (b) Flood forecasting.

 $(2 \times 10 = 20)$

(15)

4. (a) Explain the aims and objectives of disaster preparedness. (5)

- (b) List the various safety tips to be followed:
 - (i) Before the earthquake
 - (ii) During the earthquake and
 - (iii) After the earthquake.

SECTION - C

- 5. (a) Explain the various possible sources of soil pollution.
 - (b) Suggest some of the methods to control the soil pollution. (2×10=20)
- 6. (a) What do you understand by Gaseous pollutants in Particulate? Give examples of each.
 - (b) What are the different control measures for air pollution resulting from particulate matter? (2×10=20)

SECTION - D

- 7. (a) What is Global Warming? How it is responsible for climate change?
 - (b) What will be the expected change in climate if the quantity of CO₂ gets doubled in the atmosphere? (2×10=20)
- 8. (a) Write short notes on the following:
 - (i) Ozone Hole.
 - (ii) CO2 fertilisation effect.
 - (b) Explain the different strategies which can lead to reduction in global warming. (2×10=20)

SECTION - E

- 9. Briefly answer all the following questions.
 - (a) Define Disaster Risk and Hazard.
 - (b) List five main features of Disaster.
 - (c) What is relationship between Disaster Risk, Hazard and Vulnerability.
 - (d) What are tsunamis?
 - (e) Can the earthquake be predicted? Explain.
 - (f) Do the earthquake cause volcanoes? Explain.
 - (g) Who discovered Global Warming?
 - (h) What are two type of air pollutants?
 - (i) "Climate change is almost certainly being caused by human activities". Comment.
 - (j) What is the unit of sound measurement? (10×2=20)