[Total No. of Questions - 9] [Total No. of Printed Pages - 3] (2125)

15012

B. Tech 1st Semester Examination

Disaster Management & Environmental Science (CBS) HS-103

Time: 3 Hours

Max. Marks : 60

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

Note : The question paper consists of five Sections A, B, C, D and E. The candidates are required to attempt five questions in all selecting one question from each section A, B, C, D and all subparts of Section E. Use of non-programmable calculator is allowed.

SECTION - A

- Explain the impact of earthquake with the help of any 1. (a) case study
 - (b) What are different types of floods? Explain each one briefly.
 - How tornadoes can be classified? (4+4+4=12)(c)
- 2. (a) Discuss national policy on disaster management.
 - Write short note on: (b)
 - (i) Hazard (ii) Vulnerability (iii) Risk (4+8=12)

SECTION - B

3. (a) What are different phases of disaster management?

15012

(b) Discuss mitigation measures for: (i) Cyclones (ii) Floods (iii) Landslides (4+8=12)

2

- Name few of the voluntary agencies that are involved at
- 4. (a) various stages of disaster management.
 - (b) How the rural development programmes can be integrated with disaster reduction and mitigation activities? Explain few of the rural development (4+8=12) programmes.

SECTION - C

- 5. (a) List major ways to conserve water on a personal level.
 - (b) What are the major cause and consequences of deforestation? Discuss. (4+8=12)
- Why is air pollution such a large problem in urban areas? 6. (a)
 - (b) Give any five major categories of water pollutants, their sources and their effects. (4+8=12)

SECTION - D

- List the adverse effects of depletion of the Ozone layer. 7. (a) Suggest measures to prevent it.
 - What are green house gases and how they cause (b) enhanced global warming? Discuss the possible impact (4+4+4=12) of global warming.
- 8. (a) Justify the necessity of developing non-conventional sources of energy.
 - (b) Discuss the role of engineers for better and clean environment. (4+8=12)

3		
SECTION	-	Е

15012

9.	(i)	What percentage of our land areas is prone to floods? (2	
	(ii)	What is nuclear terrorism?	(2)
	(iii)	What is cyclone shelter?	(1)
	(iv)	What is rain water harvesting?	(1)
	(v)	Define radioactivity. Mention the sources of radioacti	vity. (1)
	(vi)	What are the causes of soil pollution?	(1)
	(vii)	What are the various alternatives to CFCs?	(1)
	(viii)	How does acid rain occur?	(1)
	(ix)	Write short note on carbon credits.	(1)
	(x)	List the various forms of commercial energy.	(1)