

16011(J) J-16

**B. Tech 2nd Semester Examination**

**Disaster Management (CBS)**

**HS-103**

**Time : 3 Hours**

**Max. Marks : 60**

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

**SECTION - A**

1. (a) What Impact do disasters have on the society?  
(b) What are different types of forests fires? Explain each one briefly.  
(c) What is earthquake? How severity of an earthquake is measured? (4+4+4=12)
2. (a) What is the difference between a hazard and a disaster?  
(b) What is the national policy on disaster management? (6+6=12)

**SECTION - B**

3. (a) What is disaster management? Explain its phases briefly.  
(b) List different emergency support functions in detail. (6+6=12)
4. (a) What criteria should be adopted for a good management of relief camps?  
(b) How voluntary agencies can participate in disaster management? (6+6=12)

**[P.T.O.]**

**SECTION - C**

5. (a) What are renewable and non-renewable energy sources? Give examples.  
(b) How can individual play a role in conserving the natural resources? (6+6=12)
6. (a) Define pollution. What are pollutants and their sources?  
(b) What are the harmful effects of our pollutants? How we can prevent and control air pollution? (6+6=12)

**SECTION - D**

7. (a) What are the reasons for depletion of Ozone layer?  
(b) How the problem of acid rain can be overcome?  
(c) Discuss the use of bioenergy as a non-conventional source of energy. (4+4+4=12)
8. (a) Explain the effect of climate change on economy and natural resources.  
(b) What is the role of engineers for better and clean environment? (6+6=12)

**SECTION - E**

9. (i) Name three rivers in India which are frequently affected by floods. (2)  
(ii) What is chemical terrorism? (1)  
(iii) What is the role of IT in disaster management? (1)  
(iv) What is rain water harvesting? (1)  
(v) Why is water a unique natural resource? (1)  
(vi) How do you measure noise? What are its units? (1)  
(vii) List major ways to conserve water on a personal level. (1)  
(viii) Name the various alternatives to CFCs. (1)  
(ix) Name few green houses gases. (1)  
(x) What you can do to slow down climate change? (1)  
(xi) What are chlorofluorocarbons? (1)