

Roll No. : .....

Total No. of Questions : 16 ]

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# **CENV-316**

**M.Sc. (IIIrd Semester) Examination, Jan.-2023**

## **ENVIRONMENTAL SCIENCE**

Paper - FS-ENV-EO-304(b)

**(Disaster Management)**

*Time : 3 Hours ]*

*[ Maximum Marks : 40*

The question paper contains three Sections.

### **Section-A**

**(Marks : 1 × 10 = 10)**

*Note :-* The candidate is required to answer all the *ten* questions carries 1 mark each. The answer should not exceed **50** words.

### **Section-B**

**(Marks : 3 × 5 = 15)**

*Note :-* The candidate is required to answer *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answer should not exceed **200** words.

### **Section-C**

**(Marks : 5 × 3 = 15)**

*Note :-* The candidate is required to answer *three* questions by selecting *one* question from each Unit. Each question carries **5** marks. The answer should not exceed **500** words.

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### **Section–A**

1. (i) What are man-made disaster ?
- (ii) Define Hazard.
- (iii) What do you mean by rapid onset disaster ?
- (iv) Write the expand form of UNISDR.
- (v) What is NDMA ?
- (vi) In which year was Disaster Management Act enacted in India ?
- (vii) What do you mean by Mitigation ?
- (viii) Which gas is released during Bhopal Gas Disaster ?
- (ix) Why is waste management important during disaster management ?
- (x) Explain slow disasters.

### **Section–B**

#### **Unit–I**

2. Differentiate between accidents and disasters.
3. Explain the simple and complex disaster.
4. Describe about technological disasters.

#### **Unit–II**

5. Discuss the disaster risk reduction strategies.
6. What are the sanitation issues during disasters ?
7. Discuss the early warning systems.

#### **Unit–III**

8. Write about the Gujrat earthquake.
9. How are floods managed in India ?
10. Discuss the super cyclones in India.

### **Section-C**

#### **Unit-I**

11. Discuss any *two* natural disasters in detail.
12. Write short notes on the following :
  - (a) Human settlement
  - (b) Hazards

#### **Unit-II**

13. Discuss the disaster cycle in detail.
14. Write about the components of disaster relief.

#### **Unit-III**

15. Describe the Disaster Management Act.
16. Discuss the various disaster vulnerable areas of India.