

**2024/TDC (CBCS)/EVEN/SEM/  
EESDSE-601T/153**

**TDC (CBCS) Even Semester Exam., 2024**

**ECOLOGY AND ENVIRONMENTAL SCIENCE**

**( 6th Semester )**

**Course No. : EESDSE-601T**

**( Natural Hazards and Disaster Management )**

**Full Marks : 50**

**Pass Marks : 20**

**Time : 3 hours**

*The figures in the margin indicate full marks  
for the questions*

**UNIT—1**

**1. Answer any *three* of the following questions :**

**1×3=3**

**(a) What is geological hazard?**

**(b) What is Lava?**

**(c) What is tsunami?**

**(d) What is seismograph?**

2. Answer any one of the following questions : 2

- (a) What is hydrological hazard?
- (b) State the causes of flood in North-East India.

3. Answer any one of the following questions : 5

- (a) What are volcanoes? State the losses caused due to volcanoes in the environment. 1+4=5
- (b) What is seismic wave? Discuss the impacts of earthquake and tsunamis. 1+4=5

#### UNIT—2

4. Answer any three of the following questions : 1×3=3

- (a) What is deforestation?
- (b) What are anthropogenic hazards?
- (c) What is dam?
- (d) What do you mean by flood plain?

5. Answer any one of the following questions : 2

- (a) State the impact of sand mining from river bank.
- (b) State the social problems associated with dam construction.

6. Answer any one of the following questions : 5

- (a) Give an account on impacts of anthropogenic activities like rapid urbanization groundwater extraction on environment.
- (b) State the role of construction along river banks in elevating flood hazard.

#### UNIT—3

7. Answer any three of the following questions : 1×3=3

- (a) What is risk?
- (b) What do you mean by vulnerability?
- (c) What is meant by tangible loss?
- (d) What do you mean by direct loss?

8. Answer any one of the following questions : 2

- (a) State the two components of risk. Write with example.
- (b) State briefly about vulnerability assessment.

9. Answer any one of the following questions : 5

- (a) Give an account on qualitative likelihood measurement index for risks of hazards.

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- (b) Give an account on application of geoinformatics in hazard, risk and vulnerability assessment.

UNIT—4

10. Answer any *three* of the following questions : 1×3=3

- (a) What are mangrove forests?
- (b) What is barrier in mitigation?
- (c) What is retention system?
- (d) What is planning?

11. Answer any *one* of the following questions : 2

- (a) State briefly the types of mitigation with examples.
- (b) State the role of education in hazard preparedness.

12. Answer any *one* of the following questions : 5

- (a) What is mitigation? Write the use of technologies in mitigation.
- (b) What is preparedness? Discuss briefly the role of media in hazard preparedness.

1+4=5

( 5 )

UNIT—5

13. Answer any *three* of the following questions : 1×3=3

- (a) Write the full form of NDMC.
- (b) What is the full form of IMD?
- (c) What is disaster management?
- (d) What is the full form of UNDP?

14. Answer any *one* of the following questions : 2

- (a) Write a brief note on National Disaster Management Framework.
- (b) State the role of armed forces in disaster management.

15. Answer any *one* of the following questions : 5

- (a) Give an account on national response mechanism in disaster management in India.
- (b) Discuss the role of space technology in disaster management.

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