

**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)

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.

(3)

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.

(4)

- (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

24J/784

(Continued)

(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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24J—140/784