

**2022/TDC (CBCS)/EVEN/SEM/  
EESDSE-601T/107**

**TDC (CBCS) Even Semester Exam., 2022**

**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*

**SECTION—A**

Answer any *fifteen* of the following questions :

1×15=15

1. What is seismology?
2. In which risk zone of earthquake the entire NE region falls?
3. What is meant by landslide?
4. Define volcano.

5. What are mangrove forests?
6. What is meant by desertification?
7. What is meant by nuclear reactor?
8. Define deforestation.
9. Define environmental hazard.
10. What is meant by tangible losses?
11. What is geoinformatics?
12. What is the meaning of indirect losses?
13. What is meant by capacity building in terms of disaster?
14. Cite two structural measures for mitigation of flood disaster.
15. Why pre-alertness is an important step of disaster preparedness?

16. What is the full form of UNDP?
17. What is the full form of IMD?
18. Write the four important steps of disaster management.
19. In which year Disaster Management Act was enacted?
20. Give the full form of NDMC.

SECTION—B

Answer any *five* of the following questions :  $2 \times 5 = 10$

21. What are the natural causes of drought? Explain briefly.
22. What is El Niño phenomenon? Explain briefly.
23. How does overextraction of groundwater affect the environment?
24. What are the social problems associated with the construction of dams?

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25. Differentiate between Risk and Vulnerability.
26. What is qualitative likelihood measurement index? Explain briefly.
27. How do barriers help in disaster mitigation? Explain briefly with examples.
28. Enumerate the important actions necessary for disaster preparedness.
29. What are SDMA and NDRF?
30. Differentiate between GIS and GPS.

SECTION—C

Answer any *five* of the following questions : 5×5=25

31. What are the causes of flood and what are its effects?
32. What is Tsunami? Discuss the causes and impacts of Tsunami.

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33. What is meant by urbanization? Discuss briefly the social and environmental impact of rapid urbanization.
34. Enumerate the main causes of deforestation and its impact on the environment.
35. Discuss likelihood and consequences as components of risks of hazards.
36. Discuss application of science of geoinformatics in hazard, risk and vulnerability assessment.
37. Discuss the applications of technologies in disaster mitigation.
38. Discuss role of public awareness and media in disaster preparedness.
39. Discuss the National Disaster Management Framework and its implementation.
40. How are the advanced space technologies useful in Disaster Management? Elucidate.

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