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**2021/TDC (CBCS)/EVEN/SEM/
EESDSE-601T/067**

**TDC (CBCS) Even Semester Exam.,
September—2021**

**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 hazard?**
- 2. What is atmospheric hazard?**
- 3. What are the two main types of disaster?**
- 4. Define seismology.**

5. What is known as epicentre?
6. What is reason for volcanic eruption?
7. What is nuclear reactor?
8. What do you mean by hazard prone zones?
9. Give two examples of anthropogenic activities from which hazards are formed.
10. Which place of India is famous for mangroves?
11. What is landslide hazard?
12. Give two examples of developmental projects of India from which large amount of hazards can be produced in future.
13. What is vulnerability assessment?
14. Define risk assessment matrix.
15. What is qualitative risk analysis?

16. What are the two components in assessing level of risk?
17. What is the role of geoinformatics in disaster management?
18. What do you mean by indirect losses of disaster?
19. What is mitigation?
20. What is the importance of hazard mitigation planning?
21. What is meant by hazard preparedness?
22. How do you mitigate a hazard?
23. What is the primary role of media in hazard management?
24. What is disaster education?
25. Name two disaster management agencies of India.
26. Write the full form of NDRF.
27. Who is the Chairperson of Natural Disaster Management Authority of India?

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28. Who is the head of State Disaster Management Authority?
29. Name one Indian institute which works on space-based technologies of disaster management.
30. Which year was the Disaster Management Act passed?

SECTION—B

Answer any *five* of the following questions :

2×5=10

31. How can natural hazards be classified?
32. Write a note on the seismic zone in North-East India.
33. Explain briefly how hazards are formed by deforestation.
34. What is the measurement index of hazards?
35. Define tangible and intangible losses of hazards.
36. What are the different types of mitigation?
37. What is retention system?

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38. What is disaster management?
39. Write briefly about the role of armed forces in disaster management.
40. Write the full forms of NDMC and IMD.

SECTION—C

Answer any *five* of the following questions :

5×5=25

41. Describe briefly the effects of earthquakes and tsunamis.
42. Explain briefly about hydrological and geological hazards.
43. How urbanization creates large-scale hazards? Explain.
44. Explain the role of construction in river banks to create hazards.
45. What are the applications of geoinformatics on vulnerability and risk assessment of hazards?
46. Explain the different consequences of qualitative likelihood measurement index.

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47. Describe the role of education and media in hazard preparedness.
48. Describe briefly the structural and non-structural mitigation.
49. Explain the role of space technology in disaster management.
50. How do NDMC and IMD play an active role in disaster management?

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