31. a. Write in detail about the component and phase of pre-disaster stage. | 12 | 1 | 4 | 1

(OR)

b. Explain about rehabilitation and its various aspects in post-disaster stage. | 12 | 1 | 4 | 1

32. a. Write in detail about seismological observations and hydrological observations. | 12 | 1 | 5 | 5

(OR)

b. Discuss about in detail post disaster stage. | 12 | 1 | 5 | 5

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B.Tech. DEGREE EXAMINATION, JUNE 2023
Fourth to Seventh Semester

18CEO307T – DISASTER MITIGATION AND MANAGEMENT
(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note:

(i) **Part - A** should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.

(ii) **Part - B & Part - C** should be answered in answer booklet.

Time: 3 hours
Max. Marks: 100

PART – A (20 × 1 = 20 Marks)
Answer **ALL** Questions

	Marks	BL	CO	PO
1. The Chairman of National Disaster Management Authority is _____. (A) Governor (B) Prime Minister (C) Home Minister (D) Secretary	1	1	1	1
2. The time horizon of Sendai frame work ends in _____. (A) 2040 (B) 2050 (C) 2020 (D) 2030	1	1	1	1
3. National institute of disaster management is located at _____. (A) Punjab (B) Manipur (C) New Delhi (D) Hyderabad	1	1	1	1
4. Which of the following disaster is inclusive of a landslide event? (A) Industrial disaster (B) Meteorological disaster (C) Environmental disaster (D) Topographical disaster	1	1	1	1
5. Earthquakes are recorded by an instrument called _____. (A) Thermostat (B) Barometer (C) Seismograph (D) Rather scale	1	1	2	1
6. What is the name of the formation of huge revolving storms around the area of flow atmospheric pressure in the Atlantic ocean? (A) Typhoon (B) Willy-Willy (C) Hurricane (D) Cyclone	1	1	2	1
7. The floods that occur within six hours of the beginning of heavy rainfall is called as _____. (A) Flash flood (B) Riverine flood (C) Urban flood (D) Coastal flood	1	1	2	1
8. The forward rotation is out of a slope of a mass of soil round a point is called as _____. (A) Rock fall landslide (B) Slide (C) Topple landslide (D) Spreads	1	1	2	1

9. Outbreak of diseases of plant and animal life on epidemic (or) pandemic level is called _____ .   1   1   3   1
   (A) Nuclear disaster   (B) Biological disaster
   (C) Chemical disaster   (D) Forest fire

10. What was the primary cause of the nuclear disaster in Fuksuhima on 11th March 2011?   1   1   3   1
    (A) Low-quality reactors   (B) Internal fire accident
    (C) Earthquake and Tsunami   (D) Malfunction of cooling systems

11. The emergency situations which have the potential hazard of radiation exposure due to decay of radioisotropes are classified as _____ .   1   1   3   1
    (A) Radiological emergencies (B) Chemical emergencies
    (C) Nuclear emergencies   (D) Biological emergencies

12. Fire spreading along the ground as the litter on the forest floor is called _____ .   1   1   3   1
    (A) Crown fire   (B) Slope fire
    (C) Surface fire   (D) Camber fire

13. Prevention, mitigation and preparedness come under _____ phase.   1   1   4   1
    (A) Response   (B) Pre-disaster
    (C) Post-disaster   (D) Recovery

14. Which among the following does not come under preparing multiple hazard maps?   1   1   4   1
    (A) Sources and compiling information   (B) Translated information
    (C) Timing   (D) EWS-Early Warning System

15. Structural and non-structural measures of floods comes under which category?   1   1   4   1
    (A) Response   (B) Preparedness
    (C) Mitigation   (D) Recovery

16. The system that generate and disseminate timely information about the disasters to people is called _____ .   1   1   4   5
    (A) Metrological system   (B) Oceanic information services
    (C) Central communication system (D) Early warning system

17. In what way remote sensing of disaster helps in planning?   1   1   5   5
    (A) Presence   (B) Prevention
    (C) Postal   (D) Prediction

18. The art of acquiring the information about the earth surface without being in contact with it is _____ .   1   1   5   5
    (A) Remote sensing   (B) Levelling
    (C) Mining   (D) Astronomy

19. Which among the following agency in India is responsible for preparation of the national flood atlas?   1   1   5   1
    (A) Central water commission (B) National institute of ocean technology
    (C) Ministry of home affairs (D) Central public works department

20. Which among the following is an example for better prediction?   1   1   5   5
    (A) Weather model charts   (B) Air model charts
    (C) Weather logarithmic charts (D) Water model charts

PART – B (5 × 4 = 20 Marks)   Marks   BL   CO   PO
Answer ANY FIVE Questions

21. What is called as vulnerability? Also, write how vulnerability is related to disaster?   4   2   1   1

22. Write short notes on disaster management cycle.   4   1   1   1

23. Write short notes on various types of floods.   4   1   2   1

24. What is called as chemical disaster? Also, write about different forms of chemical disasters.   4   1   3   1

25. What are the short-term and the long-term effects of nuclear disaster?   4   1   3   1

26. What are the characteristics of Early Warning System?   4   1   4   1

27. What is the role of remote sensing is disaster management?   4   1   5   1

PART – C (5 × 12 = 60 Marks)   Marks   BL   CO   PO
Answer ALL Questions

28. a. Write in detail about national disaster management framework with a flow chart.   12   1   1   1

(OR)

b. Explain in detail about Disaster Management Act 2005.   12   1   1   1

29. a. Explain in detail about cyclone, its formation, its classification and possible mitigation measures.   12   1   2   1

(OR)

b. Discuss in detail about landslide, its classification and mitigation measure.   12   1   2   1

30. a. Discuss about forest fire and its types along with effects and management.   12   1   3   1

(OR)

b. Write in detail about disaster due to oil fire accident with their causes, effects and mitigation measures.   12   1   3   1