b. Explain about post disaster stage briefly.   10   2,3   4   2,5

30. a. Write about remote sensing, its elements and its types along with its role in   10   3   5   2,5
    disaster management.

<div align="center">(OR)</div>

b. Explain about industrial safety inspectorate and emergency management   10   3   5   2,5
   system.

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B.Tech. DEGREE EXAMINATION, JULY 2022
Fourth Semester

18CEO307T – DISASTER MITIGATION AND MANAGEMENT
(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

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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** should be answered in answer booklet.

Time: 2½ Hours   Max. Marks: 75

<div align="center">PART – A (25 × 1 = 25 Marks)</div>

		Marks	BL	CO	PO
	Answer **ALL** Questions				

1. The time horizon of sendai frame work ending in   1   3   1   1
   (A) 2020   (B) 2030
   (C) 2040   (D) 2050

2. National institute of disaster management is at   1   3   1   1
   (A) Chennai   (B) New Delhi
   (C) Hyderabad   (D) Assam

3. The chairman of national disaster management authority is   1   3   1   1
   (A) Prime minister   (B) Governor
   (C) Home minister   (D) Secretary

4. How much percentage of Indian land is prone to earthquake   1   3   1   1
   (A) 30%   (B) 52%
   (C) 59%   (D) 69%

5. The disaster management act was made in   1   3   1   1
   (A) 1995   (B) 2000
   (C) 2005   (D) 2010

6. The point within the earth where an earthquake rupture starts is called   1   3   2   1,2
   (A) Crust   (B) Mantle
   (C) Epicenter   (D) Focus

7. Formation of huge revolving storms around area of low atmospheric   1   3   2   1,2
   pressure in Atlantic ocean is termed as
   (A) Typhoon   (B) Hurricane
   (C) Cyclone   (D) Willy

8. The forward rotation as out of a slope of a mass of soil round a point is   1   3   2   1
   called
   (A) Topple landslide   (B) Rock fall landslide
   (C) Slide   (D) Spreads

9. The abnormal rise of water generated by a storm over and above the predicted astronomical tides is   1 3 2 1
   (A) Tsunami   (B) Cyclone effect
   (C) Soil erosion   (D) Strom surge

10. The layer of snow with different properties slide over the another layer of snow is called   1 3 2 1
    (A) Full depth avalanche   (B) Slab avalanche
    (C) Surface avalanche   (D) Loose snow

11. Chasnala mine disaster occurred in the year   1 2 3 1
    (A) 1963   (B) 1975
    (C) 1999   (D) 2005

12. The emergency situations which have the potential hazard of radiation exposure due to decay of radioisotopes are classified as   1 2 3 1
    (A) Nuclear emergencies   (B) Biological emergencies
    (C) Chemical emergencies   (D) Radiological emergencies

13. In India, the fire in the Jharia coal field was due to   1 2 3 1
    (A) Forest fires   (B) Lightening
    (C) Human accident   (D) Unscientific mining and extraction of coal in the past

14. Outbreak of diseases of plant and animal life on epidemic of pandemic level is called   1 2 3 1
    (A) Nuclear disaster   (B) Chemical disaster
    (C) Biological disaster   (D) Forest fire

15. Fire spreading along the ground as the litter on the forest floor is called   1 2 3 1
    (A) Crown fire   (B) Surface fire
    (C) Slope fire   (D) Camber fire

16. The vulnerable groups such as the artisans, orphans and young children would need special support to survive the impact of disasters in coming under   1 2 4 1,2
    (A) Social rehabilitation   (B) Physical rehabilitation
    (C) Relocation   (D) Economic rehabilitation

17. Recovery is the components of   1 2 4 1
    (A) Pre disaster   (B) Post disaster
    (C) Mitigation   (D) Rehabilitation

18. The system generate and disseminate timely information about the disasters to people is called   1 2 4 1
    (A) Meteorological system   (B) Oceanic information services
    (C) Early warning system   (D) Central communication system

19. The areas classification based on the purpose of land serves is called   1 2 4 1
    (A) Land use   (B) Land cover
    (C) Zoning   (D) Micro zoning

20. The reconstruction of houses, roads, water supply system is called   1 2 4 1
    (A) Physical rehabilitation   (B) Social rehabilitation
    (C) Psychological rehabilitation   (D) Economical rehabilitation

21. The first seismological observatory was setup by IMD in   1 3 5 1,5
    (A) Chennai   (B) Kolkata
    (C) Shimla   (D) Jammu

22. The art of acquiring the information about the earth surface without being in contact with it is   1 3 5 1,5
    (A) Levelling   (B) Mining
    (C) Remote sensing   (D) Astronomy

23. The collection of energy that is reflected from the surface of the earth is called   1 3 5 5
    (A) Passive sensing   (B) Active sensing
    (C) Global positioning   (D) Naked sensing

24. An increasingly popular remote sensing application used for mapping earthquake deformation field is   1 3 5 5
    (A) SLR   (B) VLBI
    (C) InSAR   (D) SPOT

25. Meteorological services for agriculture in India was setup in 1932 at   1 3 5 5
    (A) Delhi   (B) Madras
    (C) Kolkata   (D) Pune

PART – B (5 × 10 = 50 Marks)
Answer **ALL** Questions   Marks BL CO PO

26. a. Explain national level disaster management institution frame work of India with flowchart.   10 2,3 1 1,2

(OR)

b. Draw and explain disaster management cycle briefly.   10 2,3 1 2,5

27. a. Explain seismic waves and its types with neat sketch.   10 2,3 2 2,5

(OR)

b. Discuss landslide, its classification and mitigation measures briefly.   10 2,3 2 2,5

28. a. Explain air pollution and its types along with sources and its effects.   10 2,3 3 2,5

(OR)

b. Discuss forest fire and its types along with effects and management.   10 2,3 3 2,5

29. a. Explain land used, objectives, major elements and zoning controls of land use.   10 2,3 4 2,5

(OR)