| b. | Infer the significance of the essential post-disaster activity "Search and Rescue (SAR)". | 12 | 3 | 4 | 2 |
|--------|---|----|---|---|---|
| 32. a. | Examine the role of remote sensing in the response, recovery and mitigation phases of the landslide event. | 12 | 2 | 5 | 1 |
| b. | (OR) Analyze the role and responsibilities of the scientific divisions of the national institute of hydrology, India. | 12 | 3 | 5 | 1 |

Reg. No.

B.Tech. DEGREE EXAMINATION, NOVEMBER 2023

Fifth & Seventh Semester

18CEO307T - DISASTER MITIGATION AND MANAGEMENT

(For the candidates admitted during the academic year 2018-2019 to 2019-2020)

| (i) (ii) | 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 40 th minute. Part - B & Part - C should be answered in answer booklet. | | | | | | | | | | | |
|-------------|--|--------|----------------------------|-------|-------|----|----|--|--|--|--|--|
| ime: 3 | lime: 3 hours | | | | | | | | | | | |
| | | | | Marks | BL | · | PO | | | | | |
| | $PART - A (20 \times 1 = 1)$ | | | Marks | .D.L. | CO | 10 | | | | | |
| | Answer ALL Q | - | | | | | | | | | | |
| 1. | The extent to which a community, s likely to be damaged or disrupted | | | | 2 | 1 | 2 | | | | | |
| | termed as | | | | | | | | | | | |
| | (A) Capacity | (B) | Vulnerability | | | | | | | | | |
| | (C) Rick | (D) | Hazard assessment | | | | | | | | | |
| 2. | Effective hazard management largely | rely | | 1 | 2 | 1 | 2 | | | | | |
| | (A) Government agencies | (B) | Emergency responses | | | | | | | | | |
| | (C) Pre disaster planning | (D) | Volcanoes | | | | | | | | | |
| 3. | The NDMA is headed by | | | 1 | 3 | 1 | 2 | | | | | |
| | (A) Prime minister | (B) | President of India | | | | | | | | | |
| | (C) Governer of states | (D) | Chief Minister of states | | | | | | | | | |
| 4. | The National Institute of Disaster Ma | anage | ment is located at | 1 | 3 | 1 | 1 | | | | | |
| | (A) Manipur | | Punjab | | | | | | | | | |
| | (C) Hyderabad | ` ' | New Delhi | | | | | | | | | |
| - | Which among the following is a good | | aget of drought? | 1 | 1 | 2 | 1 | | | | | |
| 3. | Which among the following is a soci | | | | | | | | | | | |
| | (A) Diminishing of drinking water | | Loss of soil moisture | | | | | | | | | |
| | (C) Rise in inflation rate | (D) | Loss of soil moisture | | | | | | | | | |
| 6. | Name the instrument used for measur | ring t | he magnitude of earthquake | 1 | 1 | 2 | 1 | | | | | |
| | (A) Thermometer | (B) | Ergo graph | | | | | | | | | |
| | (C) Seismograph | (D) | Barometer | | | | | | | | | |
| 7, | The ill-health effect caused by one-called | 1 | 1 | 2 | 1 | | | | | | | |
| | (A) Chorionic effect | (B) | Acute effect | | | | | | | | | |
| | (C) Systematic effect | (D) | Immediate effect | | | | | | | | | |
| 8 | In the eye of the cyclone the tempera | ture a | and pressure are | 1 | 1 | 2 | 1 | | | | | |
| 0, | (A) Highest | | Lowest | | | | | | | | | |
| | (C) Normal | ` / | Average | | | | | | | | | |

06NF5&7-18CEO307T Page 4 of 4

Page 1 of 4

Note:

06NF5&7-18CEO307T

| 9. | | read from one country to other, it is (B) Pandemic (D) Hypodemic | 1 | 1 | 3 | 1 | 20. | Indian meteorological department classify a storm as 'Super Cyclone' when the wind blows (A) More than 120 km/hr (B) More than 100 km/hr (C) More than 220 km/hr (D) More than 150 km/hr | 1 | 3 | 5 | 1 |
|-----|--|--|---|------|---|---|--------|--|-------|----|----|----|
| 10. | the second | ng disaster? (B) Collapse of bridges (D) Landslides | 1 | 1 | 3 | 1 | | PART – B (5 × 4 = 20 Marks) Answer ANY FIVE Questions | Marks | BL | CO | Pe |
| 11. | Bhopal gas tragedy can be classified as (A) Meteorological disaster | S (B) Chemical disaster | 1 | 1 | 3 | 1 | 21. | Draw the disaster management cycle. | 4 | 2 | 1 | 1 |
|) | (C) Natural disaster | (D) Biological disaster | | | | | 22. | Define vulnerability and list out the classification of vulnerability. | 4 | 3 | 1 | 2 |
| 12. | are the outbreak of disease life on epidemic or pandemic level. | s of contagious of plant and animal | 1 | Beed | 3 | 1 | 23. | Explain forest fire and building fire. | 4 | 1 | 3 | 1 |
| | (A) Nuclear disaster | (B) Chemical disaster (D) Biological disaster | | | | | 24. | Explain long term environmental effect. | 4 | 1 | 3 | 2 |
| 13. | As per WMO which regional med | | 1 | 2 | 5 | 2 | 25. | What are the impact of floods? Explain. | 4 | 1 | 2 | 1 |
| | cyclones in north Indian ocean? | (B) IMD-Delhi | | | | | 26. | Examine the significance of rapid assessment survey. | 4 | 3 | 4 | 2 |
| | | D) CPHU-Honolulu | 2 | | | | 27. | List out the 12 subsequent categories of MMI scale. | 4 | 2 | 5 | 2 |
| 14. | 4-50 | on is done by (B) Optical remote sensing (D) SAR interferometry | 1 | 2 | 5 | 2 | | $PART - C (5 \times 12 = 60 \text{ Marks})$ | Marks | BL | co | PC |
| 15 | IMD headquarters is located in which of | • | 1 | 3 | 5 | 2 | | Answer ALL Questions | | | | |
| 13. | (A) Kolkata | (B) Delhi (D) Chennai | 1 | 5 | , | 2 | 28. a. | Explain national disaster management framework in detail with flowchart description. | 12 | 2 | 1 | 2 |
| 16. | Name of the high resolution radar ren | note sensing technique to assess the | 1 | 2 | 5 | 2 | h | (OR) Evaluin disseter management avale in detail with any disseter and next | 12 | 3 | 1 | 2 |
| | cyclones | B) Interferometry | | | | | 0. | Explain disaster management cycle in detail with pre-disaster and post disaster stages elaborately. | 12 | 5 | 1 | 2 |
| | (m) | D) Scatterometry | | | | | 29. a. | Explain in detail about earthquake, its characteristics and effects. | 12 | 1 | 2 | 1 |
| 17. | The foundation of community based di | | 1 | 3 | 4 | 1 | | (OR) | | | | |
| | | B) Communication D) Disaster risk reduction | | | | | b. | Discuss in detail about flood, its classification, effects and possible mitigation measures. | 12 | 1 | 2 | 1 |
| 18. | Which is considered as a major tool mitigation activities for an earthquake | | 1 | 2 | 4 | 5 | 30. a. | Explain water pollution and its sources along its effects and causes. | 12 | 1 | 3 | 1 |
| | (A) Seismic hazard microzonation (| B) Seismic hazard macrozonation | | | | | | (OR) | | | | |
| | | D) Isoseismals | | | | | b. | Write in detail about disasters due to oil fire accident with their causes, effects and mitigation measures. | 12 | 1 | 3 | 1 |
| 19. | Identification and quantification of the recovery and reconstruction involves in | | 1 | 2 | 4 | 2 | | | | | | |
| | (A) Emergency (| B) Pre-disaster D) Recovery | | | | | 31. a. | Demonstrate and discuss the conceptual relationship between education and disaster vulnerability with a flowchart. | 12 | 2 | 4 | 2 |
| 27 | | | | | | | | (OR) | | | | |

Page 2 of 4

06NF5&7-18CEO307T

Page 3 of 4