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B.Tech. DEGREE EXAMINATION, JULY 2023
Seventh Semester

18CEO307T – DISASTER MITIGATION AND MANAGEMENT
(For the candidates admitted from 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)

Marks BL CO PO

Answer **ALL** Questions

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|--|-------------------------|
| 1. The National Disaster Management Authority (NDMA) is headed by
(A) President of India (B) Prime minister of India
(C) Governor of states (D) Chief minister of states | 1 1 1 7 |
| 2. _____ occurs when a community when community is exposed to hazards and is likely to be adversely affected through its impact.
(A) Risk (B) Vulnerability
(C) Disaster (D) Food | 1 2 1 1 |
| 3. Which one of the following is pre-disaster phase?
(A) Response (B) Rehabilitation
(C) Preparedness (D) Reconstruction | 1 2 1 12 |
| 4. Measures at reducing the impact of a natural or man-made disaster on a nation or community is
(A) Preparedness (B) Mitigation
(C) Recovery (D) Response | 1 1 1 7 |
| 5. The point of the earth's surface directly above the point where an earthquake occur is called
(A) Focus (B) Fracture
(C) Epicenter (D) Fault | 1 2 2 1 |
| 6. Hurricanes are common in
(A) India (B) Bangladesh
(C) USA (D) Australia | 1 2 2 1 |
| 7. Downward movement of mass along no definite surface of failure is
(A) Flowage (B) Sliding
(C) Subsidence (D) Deforestation | 1 2 2 1 |
| 8. _____ lack of insufficiency of rain for an extended period that cause considerable hydrologic imbalance, depletion of groundwater
(A) Cyclone (B) Tsunami
(C) Drought (D) Landslide | 1 1 2 1 |

9. _____ cyclonic storm is ranges above 222 kmph and 120 knots. 1 1 3 1
 (A) Very severe (B) Super
 (C) Severe (D) Deep
10. A prolonged period of excessively hot weather accompanied by high humidity in oceanic climate countries is 1 2 3 1
 (A) Global warming (B) Cold wave
 (C) Heat wave (D) Cyclone
11. A forest fire may burn primarily as _____ fire, spreading along the ground. 1 2 3 1
 (A) Top fire (B) Surface fire
 (C) Crown fire (D) Bottom fire
12. _____ disaster is an unforeseen and unplanned event or circumstance often with lack of intention or necessity, avoided prevented if circumstances 1 2 3 1
 (A) Biological (B) Accidental
 (C) Chemical (D) Forest
13. _____ can be defined as a set of capacities needed to generate and disseminate timely and meaningful information 1 2 4 7
 (A) Early information system (B) Early warning system
 (C) Geographic information system (D) Early return system
14. World conference on disaster risk reduction help in _____ year at Japan. 1 2 4 12
 (A) 2016 (B) 2018
 (C) 2017 (D) 2015
15. Which one of the following agencies for tsunami forecasting? 1 1 4 7
 (A) Indian metrological department (B) Indian national centre for oceanic information system
 (C) Indian agriculture department (D) Central water commission
16. The target group for disaster education is 1 1 4 1
 (A) Affected people (B) Non-vulnerable people
 (C) Urban people (D) Vulnerable people
17. The time frequency of satellite data collection is known as 1 2 5 7
 (A) Spatial resolution (B) Spectral resolution
 (C) Radiometric resolution (D) Temporal resolution
18. The first seismological observatory is established in 1 2 5 7
 (A) Chennai (B) Bangalore
 (C) Calcutta (D) Mumbai
19. _____ investigation division conducts field and laboratory based studies for sustainability of water resources 1 2 5 3
 (A) Seismological (B) Metrological
 (C) Astronomy (D) Hydrological

20. Polarimetry is used to identify _____ disaster.	1	2	5	3
(A) Landslide				
(B) Volcanic eruption				
(C) Flood				
(D) Cyclones				

PART – B (5 × 4 = 20 Marks)

Answer ANY FIVE Questions

	Marks	BL	CO	PO
21. List the effects of disaster.	4	3	2	7
22. What is vulnerability?	4	3	1	1
23. Explain ozone depletion.	4	4	2	7
24. Write the causes of air pollution.	4	3	3	12
25. What is the components of disaster management?	4	3	4	7
26. How you explain response plan?	4	4	5	12
27. Explain rehabilitation.	4	2	4	12

PART – C (5 × 12 = 60 Marks)

Answer ALL Questions

	Marks	BL	CO	PO
28. a. Draw a neat sketch and explain in detail about National Disaster Management Framework.	12	5	1	7
(OR)				
b. Elaborate about the classification of vulnerability.	12	5	1	7
29. a. Discuss in detail about causes of earthquakes.	12	4	2	7
(OR)				
b. Explain about the causes and effects of flood disaster.	12	4	2	7
30. a. Write in detail about the sources and effects of water pollution.	12	5	3	7
(OR)				
b. Describe in detail about the sources and agents of biological disaster.	12	5	3	1
31. a. Explain role of remote sensing in disaster management with case study.	12	4	5	1
(OR)				
b. Elaborate the following		4	5	5
(i) Meteorological observatory	6			
(ii) Mitigation planning	6			
32. a. Discuss about in detail post disaster stage.	12	5	4	6
(OR)				
b. Elaborate about the warning system.	12	5	4	6

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