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Reg. No.				00				

B.Tech/ M.Tech (Integrated) DEGREE EXAMINATION, MAY 2024

Sixth Semester

21CEO308T - DISASTER MITIGATION AND MANAGEMENT

(For the candidates admitted from the academic year 2022-2023 onwards)

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)	Par	t - B and Part - C should be answere	ed in a	inswer booklet.						
Time: 3 Hours					Max. Marks: 75					
		$PART - A (20 \times 1)$	= 20	Marks)	Marks	BL	со	PO		
		Answer ALL Q								
1	The	disaster management Act was ma	-		1	1	1	1		
	(A)	2006		2003						
	(C)	2005	(D)	2009						
2.	In Ir	ndia, National Institute of Disaste	r Ma	nagement is located at	1	1	1	1		
	(A)	Manipur	(B)	Punjab						
	(C)	Hyderabad	(D)	New Delhi						
3.	Vuli	nerability analysis comes in which	ı part	of the disaster management cycle?	1	2	1	7		
	(A)	Mitigation	(B)	Preparedness						
	(C)	Response	(D)	Recovery						
4.	Whi	ch of the following is not a comp	onen	t of disaster management cycle?	1	1	1	6		
	(A)	Preparedness	(B)	Response						
	(C)	Construction	(D)	Recovery						
5.	Bho	pal gas disaster is a kind of			1	2	2	1		
	(A)	Natural disaster	(B)	Manmade disaster						
	(C)	Combined	(D)	All the above						
6.	The	Chernobyl disaster of 1986 in Ul			1	2	2	6		
	(A)	Epidemic disaster	(B)	Toxic gas disaster						
	(C)	Nuclear disaster	(D)	Normal gas						
7.	The	total flood prone area in India is			1	2	2	7		
	(A)	30%	(B)	20%						
	(C)	12%	(D)	10%						
8.	Whi	1	1	2	1					
	(A)	Tsunami	(B)	9						
	(C)	Flood	(D)	Wild fire						
9.	High	h vulnerability and high hazard a	re ass		1	1	3	1		
	(A)	Low disaster risk	(B)	Medium disaster risk						
	(C)	High disaster risk	(D)	Nothing above						
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10,	During volcanic eruption, the extreme risk zone is with in a distance of (A) Up to 100 m (B) 100-300 m (C) 300 m- 3 km (D) More than 3 km	1	2	3	1
11.	Which of the following is not a man made hazard? (A) Leakage of toxic waste (B) Wars and civil strife (C) Drought (D) Environmental pollution	1	1	3.	1
12.	Effective hazard management largely rely on (A) Government agencies (B) Emergency responses (C) Volcanoes (D) Pre disaster planning	1	2	3	6
13.	The conservation practices like wind breaks and shelter belts are used to minimize. (A) Tsunami (B) Intensity of flood (C) Cyclone effects (D) Soil erosion	1	1	4	1
14.	The point within the earth where an earthquake rupture starts is called (A) Epicenter (B) Crust (C) Focus (D) Intensity	1	1	4	1
15.	Waste water has a poor biodegradability if the ratio of BOD/COD is (A) Higher than 40% (B) Less than 30% (C) Less than 40% (D) Higher than 30%	1	2	4	7
16.	Which of the following is the objective of pre-disaster management? (A) Collect information (B) Participation of people (C) First aid (D) Mock drill	1	1	4	1
17.	Rehabilitation is the priority of which of the following phase? (A) Phase of emergency (B) Mock drill (C) Reconstruction phase (D) Transitional phase	1	2	5	1
18.	How many safety integrity levels exists? (A) 1 (B) 2 (C) 3 (D) 4	I	1	5	1
19.	In Layer of Protection (LOP) analysis, which of protection, covers an onsite emergency plan? (A) 1 st layer (B) 3 rd layer (C) 4 th layer (D) 5 th layer	1	1	5	1
	Area where head count are usually taken after the evacuation of the affected area is known as (A) Shelter area (B) Head count area (C) Mustering area (D) Rescued area	1	2	5	1

	PART – B ($5 \times 8 = 40$ Marks) Answer ALL Questions	Marks	BL	СО	PO
21. a.	Explain in detail about the disaster management approach in India.	8	2	1	1,6
b.	(OR) Discuss about components of disaster in detail.	8	1	1	1
22. a.	Explain any two types of drought and drought preparedness with mitigation.	8	1	2	1
b.	(OR) Illustrate the classification of hazards in detail.	8	2	2	1
23. a.	Define vulnerability and explain the classifications of vulnerability.	8	1	3	6
b.	(OR) Discuss about the importance of international agencies in disaster mitigation.	8	3	3	1,6
24. a.	Explain application of remote sensing in various disaster situations.	8	3	4	1
ъ.	(OR) Explain disaster management cycle in detail with pre and post disaster stages elaborately.	8.	2	4	6,7
25. a.	Justify, why the recovery phase is essential after a disaster?	8	2	5	7
b.	(OR) What are the mitigation measures for your home to prevent it from disasters?	8	2	5	6
	$PART - C (1 \times 15 = 15 Marks)$ Answer ANY ONE Question	Marks	BL	со	PO
26.	Explain, National Disaster Management framework in detail with flowchart description.	15	1	1	1,6
27.	Write in detail about hydro metrological hazards.	15	2	2	1

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