		 	 _		 	 		
			1					
Reg. No.								
1105.110.								N (

B.Tech. DEGREE EXAMINATION, MAY 2024

Fourth to Seventh Semester

18CEO307T - DISASTER MITIGATION AND MANAGEMENT

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note:

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

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

Tim	ie: 3	hours			Max. M	lark	s: 10	00
			$T - A (20 \times 1 = 20)$ Answer ALL Quest	,	Marks	BL	со	PO
	1.	The Chairman of the N			1	1	1	1
		(A) Home minister		Chief minister				
		(C) Prime minister	(D)	Vice president				
	2.	National Institute of di	saster management	is located at	1	1	1	1
		(A) Punjab	_	New Delhi				
		(C) Manipur	(D)	Hyderabad				
	3.	The disaster manageme	ent Act was made i	n the year	1	1	1	I
		(A) 2003		2004				
		(C) 2005	(D)	2006				
	4.	The mitigation phase in	n disaster managen	nent	1	2	1	1
		(A) Occurs after a dis	aster (B)	Occurs before a disaster				
		(C) Include property i		Include revised zoning				
	5.	Which is the appropriate	te cause of global v	varming?	₅ 1	3	2	2
		(A) Chlorofluorocarbo	-	Mineral oil		25		
		(C) Methane emission	(D)	Oxide of nitrogen				
	6.	Which of the following	is the origin of ear	thquake?	1	2	2	2
		(A) Volcanic eruption		Movement of crustal plates				
		(C) Tsunami		Power failure				
	7.	Which human action sh	ould be avoided fo	or prevention of flood?	1	3	2	2
		(A) Dam construction						
		(C) Nuclear test		Aviation exhaust				
	8.	Choose the type of disa	ster under which C	ovid-19 can be placed	1	2	2	2
		(A) Chemical		Biological				
		(C) Nuclear	(D)	Metrological				
	9.	Earthquakes are recorde	ed by an instrumen	t called	1	1	3	1
		(A) Thermostat	(B)	Rather scale				
		(C) Barometer	(D)	Seismograph				
Page	1 of 4				28MF4-7-1	SCE	32077	г

28MF4-7-18CEO307T

10.	In disaster management EWS stands	for		1	1	3	1		
	•		Early warning system						
	(C) Emergency water supply	· · ·							
		• /							
11.	Prevention, mitigation and preparedr	ess c	orners under phase.	1	2	3	2		
	(A) Pre disaster	(B)	Post disaster						
	(C) Recovery	(D)	Response						
						2			
12.	Which was the first country to develo	_		1	1	3	1		
	(A) Russia	,	China						
	(C) United States of America	(D)	Japan						
				1	2	4	2		
13.	Rehabilitation indicates	(TD)	D 11' 1 14 ' - C- 4.	1	2	7			
	(A) Immediate response after the	(B)							
	disaster	· (D)	disaster						
	(C) Planning the mitigation of the	(D)							
	event		after disaster						
1 /	Viole analylitas analyzaia agencias ana	lan	nort of disaster management	1	3	4	2		
14.	Vulnerability analysis corners is unc		part of disaster management						
	cycle. (A) Mitigation	(R)	Preparedness						
	(C) Response	• /	Recovery						
	(C) Response	(D)	Recovery						
15	What is the name of the map in wh	ich th	e areas are classified based on the	1	2	4	2		
15.	natural surface features on the groun		o arous aro classifica casea on me						
	(A) Land cover map		Land use map						
	(C) Land cover and land use map								
	(C) Pand 60 ver and mand 300 map	(2)	Cuucii III IIII F						
16.	What is the issue of Jharia coal mine	unde	erground fire?	1	2	4	2		
	(A) Forest fire		Lightening						
	(C) Human accident		Unscientific mining and		S				
		` ,	extraction of coal in the past						
17.	Indian Metrological Department cal	ls a st	form as "Super Cyclone" when the	1	1	5	1		
	wind blows						*		
	(A) More than 120 km / hour	(B)	More than 100 km / hour						
	(C) More than 220 km / hour	(D)	More than 320 km / hour						
						_			
18.	Which among the following does no	ot con	ne under preparing multiple hazard	I	2	5	1		
	maps?								
	(A) Translated information	` '	Sources of compiling information						
	(C) Timing	(D)	EWS						
				1	1	5	1		
19.	The permanent seismological observ	_		1	1	5	1		
	(A) Palenpur, Gujarat	. ,	Chamoli, Uttarakhand						
	(C) Latur, Maharashtra	(D)	Pune, Maharashtra						
20									
20.				1	1	5	1		
	(A) ISO	` ′	IMD CGWP						
	(C) ISI	(D)	CGWB						

	PART – B ($5 \times 4 = 20$ Marks) Answer ANY FIVE Questions	Marks	BL	co	PO
21.	Discuss in brief about the disaster management cycle.	4	2	1	1
22.	Explain triage and tagging in disaster management.	4	2	2	2
23.	Discuss about the types of faults.	4	2	2	2
24.	List the sources of fire hazard.	4	2	3	1
25.	List any two primary and secondary effects of flood.	4	3	2	2
26.	Discuss briefly about the types of aerial photographs.	4	3	5	2
27.	List the key functions of GIS.	4	3	5	2
	PART – C (5 × 12 = 60 Marks) Answer ALL Questions	Marks	BL	со	PO .
28. a.	Explain the national disaster management framework in detail with neat flow chart.	12	3	1	2
	(OR)				
b.	Write short notes on (i) Disaster (ii) Hazard (iii) Vulnerability	4 4 4	2 2 2	1 1	·1 1 1
29. a.	Analyze the causes and effects of landslides, their classification, and mitigation measures.	12	4	2	4
b.	(OR) Discuss in detail about the formation of cyclones, its types and impacts.	12	4	2	3
30. a.	Write in detail about (i) Coal fire (ii) Oil fire (iii) Deforestation	4 4 4	3 3 3	3 3 3	1 1 1
b.	(OR) Explain the causes and effects of Chernobyl nuclear power plant accident in detail.	12	3,4	3	3
31. a.	What is the post disaster stage plan for landslide and Tsunami?	12	3,4	4	3,4
b.	(OR) What is the pre-disaster stage preparedness plan for earthquake?	12	3,4	4	3,4

32. a. Explain in detail about the roles and responsibilities of the scientific division 12 3,4 5 of seismological observatory.

(OR)

b. Discuss in detail about the role of remote sensing and GIS in disaster 12 3,4 5 2,1 management.

* * * * *