Reg. No			
Acg. 110		 	

B.Tech DEGREE EXAMINATION, DECEMBER 2023

Fourth to Seventh Semester

18CEO307T - DISASTER MITIGATION AND MANAGEMENT

(For the candidates admitted during the academic year (2020-2021 & 2021-20222))

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 and Part - C should be answered in answer booklet.

ii. Par	t - B and Part - C should be answered in ans	wer booklet.			100	
Time: 3 Hours			Max. Marks: 100			
PART - A (20 × 1 = 20 Marks) Answer all Questions			Mark	s BL	СО	
1.	Effective hazard management largely rely or (A) Govt. agencies (C) Pre-disaster planning	(B) Emergency responses (D) Volcanoes	1	1	1	
2.	The point of the earth's surface directly abo is called (A) Focus (C) Fracture	(B) Epicenter (D) Fault		1	1	
3.	Vulnerability analysis comes in which part of (A) Mitigation (C) Response	of the Disaster Management Cycle (B) Preparedness (D) Recovery		1	1	
4.	Floods can be prevented by (A) Afforestation (C) Tilling the land	(B) Cutting the forest(D) Removing the top soil	1	1	1	
5.	Which satellite in India is used to track Cyc (A) INSAT (C) Ocean SAT	elone? (B) IRS (D) GSAT-7	1	1	2	
6.	Which among the following is not required Hazard? (A) Slope (C) Wind velocity	in the preparation of MHM for landslide (B) Geologic formations (D) Rainfall	1	1	2	
7.	Disaster is an event arising out of (A) Result of hazard event (C) Causes of disaster event	(B) Causes of hazard event(D) Risks of disater event	1	1	2	
8.	Structural and Non-structural measures (A) Socio-economic measures (C) Environmental measures	(B) Physical measures(D) Post disaster measures		1	2	
9.	"Kalbaisakhi"is a kind of thunder storm wi (A) Nagaland, Tripura and Sikkim (C) Assam, Tripura and West Bengal	tnessed in the states of (B) Mizoram, Assam and Manipur (D) West Bengal, Manipur and Mizoram	1	1	3	
10	Earthquake is a: (A) Geological disaster (C) Meteorological disaster	(B) Hydrological disaster (D) Compound disaster	1	1	3	

11.	EOC Stands for (A) Emergency Operations Center (C) Emergency Official Control	(B) Earthquake Observation Center	1	1	3
12.	Which of the agency in India responsible Atlas?	(D) Energy Operation Control e for preparation of the National Flood	1	1	3
	(A) Ministry of Home affairs (C) Central Public Works Department	(B) Central Water Commission(D) National Institute of Ocean Technology			
13.	An observatory is mainly utilized to record_ (A) Disastrous events (C) Terrestial events	(B) Celestial events (D) Celestial and Terrestial events	1	1	4
14.	How many phases are there in disaster mans (A) 3 (C) 5	agement cycle? (B) 4 (D) 6	1	1	4
15.	The likelihood of an undesired event occur specified circumstances is known as (A) Hazard (C) Endogeneus	(B) Emergency	1	1	5
16	(C) Endogenous The cash grant made excitable to the C	(D) Risk			
10.	The cash grant made available to the farme neighboring areas during rehabilitation phas (A) Short-term measure (C) Economic measure	ers to hire agricultural laborers from the e comes under (B) Long-term measure (D) Socio-economic measure	1	1	5
17.	What is the full form of SARS? (A) Social and racial struggle (C) Severely affected river sides	(B) Soil and river sewage(D) Severe acute respiratory syndrome	1	1	5
18.	What are different types of Industrial hazard(A) Chemical hazards and Physical hazards(C) Chemical and Biological hazards	s? (B) Chemical, Physical and Biological hazards	1	1	6
19.	Which of the following is NOT because of fl	(D) Biological and physical hazards	_		
10.	(A) Epidemics and diseases like diarrhea, cholera, typhoid etc.	(B) Increase in alkalinity of the soil	1	1	6
	(C) Occurrence of landslide	(D) Scarcity of clean drinking water			
	Which event produces the biggest Tsunami? (A) Earthquake (C) Hurricanes	(B) Underwater landslides (D) Impacts of asteroids and comets	1	1	6
	PART - B ($5 \times 4 = 20$) Answer any 5 Ques		Marks	BL	со
21.	Write a brief note of scope of disaster and ch	aracters of disaster	4	1	1
	. What are the causes and effects of floods?		4	1	2
23.	. Explain about the causes of coal fires and forest fires		4	1	3
	4. What are the components of disaster management?			1	3
	Write a short note on Remote Sensing and Gl		4	1	4
	Explain on Post disaster stage.	-	4	1	5

27.	Explain the terms • Disaster • Risk • Hazard • Vulnerability	4	1	6
	PART - C (5 × 12 = 60 Marks) Answer all Questions	Mark	s BL	СО
28.	(a) Discuss in detail about Earthquake and its Impact. (OR) (b) Discuss in detail on causes for landslides and Impact.	12	1	1
29.	(a) Demonstrate the purpose, key stages and outcomes of a disaster management cycle (OR)	12	1	2
	(b) Discuss in detail about disaster management policy, plans and challenges in disaster response.			
30.	 (a) Elaborate on biological disasters and give suitable example. (OR) (b) What are the sources, causes and effects of air and water pollution? Discuss. 	12	1	3
31.	 (a) What is an observatory and how does it help in disaster mitigation? Explain. (OR) (b) Explain in detail about Seismological Observatory and its application. 	12	1	4
32.	(a) Analyse the roles and responsibilities of the scientific divisions of the National Centre of Seismology, India. (OR)	12	1	5
	(b) Discuss about hazard specific mitigation plan.		5	

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