25.	Interpret the relationship between the given statements:  Assertion (A) the control segment controls the GPS satellites by tracking and providing them with correct orbital and clock information  Reason (R) the control segment maintain two-way transmission with	1	2	5	1,5
	the user and space segment  (A) (A) is true, but (R) is not the (B) (A) is false, but (R) is the correct explanation  (C) (A) is true, and (R) is the (D) (A) is false, and (R) is not the correct explanation  - correct explanation				
	PART – B ( $5 \times 10 = 50$ Marks) Answer ALL Questions	Marks	BL	со	PO
26. a.	Demonstrate the purpose, key stages and outcomes of the disaster management cycle.	10	3	1	1,2
b.	Outline the National Disaster Management Framework Structure with a neat illustration and discuss each role and responsibility of committees under each layer in detail.	10	4	1	1,2
27. a.	Examine the (i) causes, effects, classification of an earthquake (ii) the importance of isoseismals (iii) S-P travel time curve in locating the epicenter.	10	3	2	1,2,5
b.	(OR) Analyze the causes and effects of landslide events, their classification, and mitigation measures.	10	4	2	1,2,5
28. a.	Examine the causes and effects of the Chernobyl nuclear power plant accident in detail.	10	3	3	2
	P				
b.	(OR)  Analyze the environment and economic impacts of deforestation and mitigation strategies in detail.	10	4	3	1,2
29. a.	Demonstrate and discuss the conceptual relationship between education and disaster vulnerability with a flow chart.	10	3	4	1,2
b.	(OR) Infer the significance of the essential post-disaster activity "Search and Rescue (SAR)".	10	4	4	1,2
30. a.	Examine the role of remote sensing in the response, recovery and mitigation phases of the landslide event.	10	3	5	1,2,5
b.	(OR) Analyse the roles and responsibilities of the scientific divisions of the National Institute of Hydrology India.	10	4	5	1,2,5
	* * * * *				

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## B.Tech. DEGREE EXAMINATION, MAY 2022

Fourth to seventh Semester

## 18CEO307T – DISASTER MITIGATION AND MANAGEMENT

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

Note:

(C) Cyclone

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( )		Part - A should be answered in OMR sover to hall invigilator at the end of 40 <sup>th</sup> repart - B should be answered in answer by	ninute	e.	et shou	ıld b	e ha	nded
(ime	e: 2½	½ Hours			Max	. M	arks	: 75
		$PART - A (25 \times 1 =$			Marks	BL	со	РО
		Answer <b>ALL</b> Q			1	1	1	2
	1.	What is considered to be a major risk			•	-	-	
		(A) Flood	` '	Drought				
		(C) Cyclone	(D)	Frigid-desert				
	2	Which of the following disaster is inc	clusiv	ve of a landslide event?	1	1	1	2
	4.	(A) Environmental disaster	(B)	Topographical disaster				$\approx$
		(C) Meteorological disaster	. ,	Industrial disaster				
		(C) Wickenfological disaster	(2)					
	3	Identify the data involved in the prep	aratio	on of isoseismals?	1	1	1	1
	٥.	(A) Duration		Location				
		(C) Magnitude	• •	Intensity				
		( )		1 1	1	2	1	2
	4.	What is the difference between epide						
		(A) Epidemic is a global-scale						
		disaster, and a pandemic is a		places, and pandemic related to				
		local scale disaster	(D)	local scale disaster				
				Epidemic is related to local				
		disaster, and a pandemic is a		scale disasters, and pandemic is				
		global-scale disaster		restricted to certain places				
	5.	How is the highest impact of the	disa	aster on society associated with	1	2	1	2
		exposure and severity?		The state of the s				
		(A) High exposure with high severit	y res	ulted in high impact				
		(B) High exospore with moderate se	verit	y resulted in high impact				
		(C) Moderate exposure with high se	verity	y resulted in high impact				
		(D) Moderate exposure and severity						
	_	` '			1	1	2	1,5
	6.	Identify the point within the earth	WITEI	e an earmquake rupture actuary				
		starts (A) Enicenter	(B)	Crust				
		(A) Epicenter (C) Fault	(D)					
			` /				2	1.0
	7.	What is the name of the formation			1	1	2	1,2
		area of low atmospheric pressure in	the A					
		(A) Typhoon	(B)	Hurricane				

(D) Willy-Willy

8. Name of the conservation practice used to minimize soil erosion is	n the 1 1 2 1,2,5	17. Which among the following does not come under preparing multiple 1	1 4	1
agriculture fields?		hazard maps?		_
(A) Percolation ponds (B) Chech dams		(A) Translated information (B) Sources and compiling		
(C) Jetty (D) Contour bunds		information		
(b) contour builds				
9. Interpret the relationship between the given statements:	1 2 2 2	(C) Timing (D) EWS		
Assertion (A) Sluff avalanches are quite dangerous		10 W/L-4 !- 44- 1 14 11 1 1 1 1 1 1 1 1 1 1	1 4	2
	مام المام	18. What is the method used to rescue a sling in which a person may be	1 4	2
Reason (R) Sluff avalanches travel slowly due to friction, we called a debric from the math fairly positive and associate and as	WIICI	lowered from heights?		
collects debris from the path-fairly easily and can pick up speed with e		(A) Lashing (B) Double sheet-bend		
(A) (A) is true, (R) is not the (B) (A) is false, but (R) is	s the	(C) Chair-knot (D) Fore and AFT method		
correct explanation correct explanation				
(C) (A) is true, and (R) is the (D) (A) is false, and (R) is no	of the	19. Interpret the relationship between the given statements:	2 4	2
correct explanation correct explanation		Assertion (A) SAR stands for search and respond		
10 II d	10 1 2 2 105	Reason (R) the SAR activities are under taken in two ways		
10. How the accurate location of the epicenter of an earthquake is identified	ed? 1 2 2 1,2,5	(i) The community local resources and		
(A) Remote sensing (B) Survey		(ii) Outside community resources		
(C) Isoseismals (D) Time-travel curve		(A) (A) is true, but (R) is not the (B) (A) is false, but (R) is the		
		correct explanation correct explanation		
11. What was the primary cause of the nuclear disaster in Fukushim	na on 1 1 3 2	(C) (A) is true, and (R) is the (D) (A) is false, and (R) is not the		
11 <sup>th</sup> March 2011?		correct explanation correct explanation		
(A) Earthquake and Tsunami (B) Low-quality reactors				5
(C) Malfunction of cooling (D) Internal fire accident	4)	20. Interpret the relationship between the given statements:	2 4	1,2
systems		Assertion (A) land use and land cover classification are considered		
12. What is the name of the outbreak of diseases of contagions of plants	s and 1 1 3 2	important in disaster prevention and mitigation for disaster-prone regions		
animal life on a pandemic level?	S tild	Reason (R) the information on land use is given high priority than		
(A) Nuclear disaster (B) Chemical disaster		land cover in decision making		
(C) Biological disaster (D) Forest fire		(A) (A) is true, but (R) is not the (B) (A) is false, but (R) is the		
(b) Totest inc		correct explanation correct explanation		
13. What type of fire is particularly level dangerous?	1 1 3 2	(C) (A) is true, and (R) is the (D) (A) is false, and (R) is not the		
(A) Surface fire (B) Crown fire on a hill slope		correct explanation correct explanation		
(C) Crown fire on a flat surface (D) Surface fire in the dry region	nn .			
(b) Surface the in the dry region	511	21. Name the satellite used for weather forecasting, and cyclone prediction in	1 5	1,2,5
14. Interpret the relationship between the given statements:	1 2 3 2	India?		
Assertion (A) the method of simultaneous integration of cro	ne is	(A) SCATSAT-1 (B) AVHRR		
called crop rotation	ps 15	(C) RISAT (D) LANDSAT		
Reason (R) this practice is done to decrease the rate of soil erosion	n			
(A) (A) is true, but (R) is not the (B) (A) is false, but (R) is		22. What is the rank of the "Ruinous" category in MMI sacle?	1 5	1,2
correct explanation correct explanation	, the	(A) 3 (B) 5		
(C) (A) is true, and (R) is the (D) (A) is false, and (R) is no	at the	(C) 9 (D) 11		
correct explanation correct explanation	t the			
correct explanation		23. What is the name of the regional navigation satellite system developed by	1 5	1,5
15. What is the issue of Jharia coal mine underground fire?	1 2 3 1,2	India?		
(A) Forest fires (B) Lightening		(A) RISAT (B) IRNSS		
(C) Human accident (D) Unscientific mining	and	(C) GPS (D) GLONASS		
extraction of coal in the pas				
oxuaction of coar in the pas	Ji	24. What sensor-platform characteristic is closely associated with the changes	2 5	1,2
16. What is the name of a map in which the areas are classified based o	on the 1 1 4 1,2	that occurred overtime?		
natural surface features on the ground?	ii uic	(A) Spatial resolution (B) Radiometric resolution		
(A) Land cover map (B) Land-use map		(C) Spectral resolution (D) Temporal resolution		
(C) Land cover and land-use map (D) Cadastral map				
(2) Cadabata map				

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