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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S7 (R,S) (S5 PT) Examination November 2025 (2019 Scheme).

Course Code: CET445

Course Name: NATURAL DISASTERS AND MITIGATION

		Course Name: NATURAL DISASTERS AND MITTIGATION	
Ma	ix. N	Tarks: 100 Duration: 3	Hours
		PART A Answer all questions, each carries 3 marks.	Marks
1		Define the following: a) Capacity b) Exposure c) Risk	(3)
2		How does urbanization increase vulnerability to natural disasters?	(3)
3		Differentiate between epicentre and hypocentre of an earthquake.	(3)
4		Name three types of volcanic hazards.	(3)
5		What are the major causes of forest fires?	(3)
6		Mention three causes of soil erosion.	(3)
7		What are the main components of risk in the context of disaster management?	(3)
8		Briefly mention the various stages in disaster management cycle.	(3)
9		Briefly mention examples of use of modern technology in disaster management.	(3)
10		What are the key factors to consider in relief camp layout?	(3)
		PART B Answer any one full question from each module, each carries 14 marks.	
		Module I	
11	a)	Differentiate between natural and human-made hazards with examples.	(8)
	b)	Explain the concept of Carbon Footprint and discuss any three ways to reduce it.	(6)
		OR	
12	a)	How does resilience influence the recovery from a disaster? Illustrate with	(8)
	1.	examples.	(6)
	b)	With the help of examples bring out the inter-connected nature of the earth's subsystems.	(6)
		Module II	
13	9)		(7)
13	a)	Using neat sketches, explain the mechanism of formation of Tsunami.	(7)
	b)	Explain the mechanism of formation of storm surges.	(7)

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What are the various causes of floods? Briefly explain any five flood mitigation strategies. Module III How does desertification occur? Discuss the various effects and mitigation (14)measures. OR Reflect on how a landslide disaster might change a community's way of life. (8) Suggest any three methods that can be adopted to conserve soil and prevent further (6)degradation. Module IV 17 Explain the roles of disaster response and disaster recovery in disaster (14)management. Illustrate your answer with suitable real-life examples. OR 18 a) Explain the basic concept of SWOT Analysis. How can SWOT Analysis be applied in disaster management planning? Discuss its advantages and limitations in managing disaster risks effectively. Module V 19 "Community participation is critical in all phases of disaster management." Justify a) (7) this statement with examples. Explain the main components of a disaster management plan for floods. b) (7)OR What is Environmental Impact Assessment (EIA)? Explain its importance in (14)disaster-prone regions. How does EIA contribute to sustainable development?