2E1024

Roll No. ____

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B. Tech. II Semester (Main/Back) Examination, June/July-2011 Common for All Branches

204 Environmental Engineering & Disaster Management

Time: 3 Hours

Maximum Marks: 80

Min. Passing Marks: 24

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)

Unit - I

- 1. a) "Education of Environmental Science is necessary for sustainability of future".

 Verify this statement. Also, explain about different components of global environment.

 (8)
 - b) Discuss about adverse effects of environmental pollution and control strategies.

(8)

OR

a) Write short notes on followings:-

(8)

- i) Biotic and abiotic environment and its mutual relationship.
- ii) Environmental Acts and Regulations.
- b) Comment on:
 - i) Potential and present status of renewable sources of energy in India.
 - ii) Energy flow in ecosystem.

(8)

Unit - II

2.	a)	What is water pollution? Describe different water pollutants.	(8)		
	b)	Give the flow chart for 'Domestic Waste water Management'.	(8)		
		OR			
	a)	a) Explain the followings:-			
		i) Environmental Impact Assessment (EIA)			
		ii) Anaerobic digestion.			
	b)	Give your opinion on :-	(8)		
		i) Quality parameters of potable water			
		ii) "Rain Water Harvesting (RWH) is the only solution for water Rajasthan".	crisis in		
		Unit - III			
3.	a)	What is Solid Waste Management (SWM)? Discuss all steps involve ideal SWM practice.	ed in an (8)		
	b)	Explain harmful effects of Air pollution and suggest different met control Air pollution.	hods to (8)		
		OR			
	a)	Write notes on :-			
		i) Global warming: Its causes and consequences			
		ii) Acid Rain and its adverse effects.			
		iii) Noise pollution and its control			
		iv) Sanitary Landfill			
	b)	What is Hazardous material? What can we do for its better treatme disposal?			

Unit - IV

4.	a)	W	hat is Disaster? Explain various phases of Disaster Management Cycle	:.(8)	
	b)	W	hat do you know about "Vulnerability of Indian Continent to different ty disaster"?		
			OR		
	a)	W	rite an essay on different DOs and DON'Ts for safety during disasters	?(8)	
	b)	De	scribe briefly the followings Cyclone, Flood, Landslides, Environme zards and Chemical disaster.		
			Unit - V		
5.	a)	a) What is Plate Tectonic Theory? Explain the occurrence of Earthque the basis of this theory.			
	b)	Giv	ve account on		
		i)	Scales of Earthquakes		
		ii)	Earthquake resistant Houses and Construction practices	(8)	
			OR		
	a)	Exp	plain the following terms -	(8)	
		i)	Earthquake Magnitude		
		ii)	Focal Depth and Epicenter		
		iii)	Earthquake Energy		
		iv)	Types of Earthquakes		
	b)	Exp betv	lain the concept of Seismic zooming. How can you explain the relations ween Tsunami and Earthquakes?	hip (8)	