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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

- "Education of Environmental Science is necessary for sustainability of future". Verify this statement. Also, explain about different components of global environment.
 - Discuss about adverse effects of environmental pollution and control strategies. (8)

OR

Write short notes on followings :-

- (8)
- Biotic and abiotic environment and its mutual relationship. i)
- Environmental Acts and Regulations.
- Comment on :b)
 - Potential and present status of renewable sources of energy in India. i)
 - Energy flow in ecosystem. ii)

(8)

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(1)

Contd....

Unit - 11

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2.	a)	W	hat is water pollution? Describe different water pollutants.	(8)
	b)	Giv	ve the flow chart for 'Domestic Waste water Management'.	(8)
			OR	
	a)	Exp	plain the followings:-	(8)
		i)	Environmental Impact Assessment (EIA)	
		ii)	Anaerobic digestion.	
	b)	Giv	ve 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)		nat is Solid Waste Management (SWM)? Discuss all steps invol- al SWM practice.	ved in an (8)
	b)		plain harmful effects of Air pollution and suggest different me	ethods to
		con	atrol Air pollution.	(8)
			OR	
	a)	Wr	ite notes on :-	(8)
		i) .	Global warming: Its causes and consequences	
		ii)	Acid Rain and its adverse effects.	
		iii)	Noise pollution and its control	
		iv)	Sanitary Landfill	
	b)		nat is Hazardous material? What can we do for its better treatr posal?	ment and (8)

Unit - IV

4.	a)	What is Disaster? Explain various phases of Disaster Management Cycle.(8)				
	b)	What do you know about "Vulnerability of Indian Continent to different types of disaster"? (8)				
	OR					
	a)	Write an essay on different DOs and DON'Ts for safety during disasters?(8)				
	b)	Describe briefly the followings Cyclone, Flood, Landslides, Environmental Hazards and Chemical disaster. (8)				
		Unit - V				
5.	a)	What is Plate Tectonic Theory? Explain the occurrence of Earthquakes on the basis of this theory. (8)				
	b)	Give account on				
		i) Scales of Earthquakes				
		ii) Earthquake resistant Houses and Construction practices (8)				
		OR				
	a)	Explain the following terms - (8)				
) Earthquake Magnitude				
		i) Focal Depth and Epicenter				
		ii) Earthquake Energy				
		v) Types of Earthquakes				
176	b)	Explain the concept of Seismic zooming. How can you explain the relationship between Tsunami and Earthquakes? (8)				