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2013

ENVIRONMENTAL SCIENCE

Time: 3 hours Full Marks: 70

Instructions:

- (i) The marks are indicated in the right-hand margin.
- (ii) There are NINE questions in this paper.
- (iii) Attempt FIVE questions in all.
- (iv) Question No. 1 is compulsory.
- 1. Answer any seven as directed: 2×7=14
 - (a) Minamata disease was caused by the pollution of ——.

(Fill in the blank)

- (b) Give the characteristics of thermosphere (altitude, temperature and ions).
- (c) Cadmium pollution in Japan led to diseases.

(Fill in the blank)

- (d) What is Love Canal episode?
- (e) Name the three gases in atmosphere which cause acid rain.
- (f) What are the causes of Bhopal disaster?

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(g) A 20 ml of sample of effluent water required 8.3 ml of 0.002 MK₂Cr₂O₇ in acidic medium for oxidation. COD of sample ——.

(Fill in the blank)

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- (h) Why is radioactive wastes disposed off in salt mines?
- (i) What is endemism?
- (j), What is lapse rate?
- 2. (a) What are the sources of water pollution?
 - (b) Describe different methods to control and remedial measures to curb water pollution.
 - (c) Discuss the process of aerobic and anaerobic oxidation of sewage.
- 3. (a) What are the various sources of noise? 4
 - (b) How noise and noise level are measured?
 - (c) Describe the approaches and methods of noise control.
- (a) What is ecosystem? Discuss the role of producer, consumers and decomposers in a pond ecosystem.
 - (b) What do you understand by a balanced ecosystem and imbalanced ecosystem? 6

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5.	(a)	What is photochemical smo	g?	4
	(b)	Write the mechanism of for photochemical smog.	ormation of	5
	(c)	How photochemical smog affect the human health?	adversely	5
6,	(a)	Describe the major pollutar from thermal power plants, iron industries. Discuss the control.	cement and	-4
	451	What is El Nino effect?		4
7.	10)	What is biodiversity? D importance of biodiversity.	iscuss the	8
	(b)	Giving suitable example, between food chain and food ecosystem.		6
8.	(a)	What is soil erosion? Discutypes of soil erosion.	ss different	4
	(b)	Write conservation method soil erosion.	to prevent	5
	(c)	What are the roles of urban verbal pollution?	waste in soil	5
9.	Writ	e short notes on the following	ng: 3½×4=1	4
	(a)	Ecological pyramid		
	(6)	Greenhouse effect		
	Jor	Human acoustics		
	(d)	Desertification	akubihar.	com

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