STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2011-12 & thereafter)

SUBJECT CODE: 11CH/PE/IM14

M.Sc. DEGREE EXAMINATION, NOVEMBER 2014 FIRST SEMESTER

		FIRST SE	MESTER		
COURS PAPER TIME	: IND	CTIVE USTRIAL WASTE N IINUTES	MANAGEMENT	MAX. MARKS: 20	
ANSWI	TO BE AN ER ALL QUESTIO		QUESTION PAPER	2 ITSELF $(20 \times 1 = 20)$	
I CHO	OOSE THE CORR	RECT ANSWER:			
1.	The second region (a) Troposphere	of atmosphere is (b) Mesosphere	(c) Stratosphere	(d) Thermosphere	
2.			where aerated lagoon p (c) Tertiary		
3.	, <i>,</i>		* *	waste management of the above	
4.	The LD ₅₀ (g/kg) o (a) 0.05	f lead for rat is (b) 0.002	(c) 0.15	(d) 0.25	
II FIL	L IN THE BLAN	KS:			
5.	The major pollutant responsible for acid rain is				
6.	Sedimentation is done at the level of water treatment.				
7.	The case study of Itai Itai disease is based on poisoning.				
8.	Water (prevention and control of pollution) act was constituted in				
III ST	ATE WHETHER	TRUE OR FALSE:			
9.	ISO 14000 deals v	vith environmental sta	ındards.		

- 10. Tsunami 2004 is also called as boxing day tsunami.
- 11. Trickling filters are part of primary treatment of water.
- 12. EPA stands for environmental prevention act.

IV MATCH THE FOLLOWING:

13.	Bhopal gas tragedy	(a) Chlorofluorocarbor
14.	OSHA	(b) methyl isocyanate
15.	EDTA	(c) safety study
16.	ozone depletion	(d) hardness study

V ANSWER IN A LINE OR TWO:

- 17. What are photochemical pollutants?
- 18. What is the principal pollutant from distilleries?
- 19. How is incineration of solid waste done?
- 20. Define sustainable development in environment.

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COURSE ELECTIVE PAPER INDUSTRIAL WASTE MANAGEMENT TIME 2 ½ HOURS MAX. MARKS: 80 SECTION - B ANSWER ANY FIVE QUESTIONS: $(5 \times 8 = 40)$ a) Write the classification of air pollutants. 1. (4+4)b) How do electrostatic filters act as pollution control devices for particulates? 2. Write short notes on (2+4+2)(i) COD (ii) total hardness of water (iii) eutrophication 3. Give a detailed account on waste water management in Textile industry. (8) 4. a) Explain solid waste management by vermi compositing. (4+4)b) How is recycling of solid waste done? 5. Discuss on (4+4)(i) toxicity of chemicals in general (ii) LD₅₀. a) How are nuclear wastes disposed? 6. (4+4)b) What are the problems encountered due to urbanization? What are the steps taken in global and national level towards green future? 7. (4+4)**SECTION - C ANSWER ANY TWO QUESTIONS:** $(2 \times 20 = 40)$ a. Discuss in detail the primary, secondary and tertiary level waste water treatment. (15) 8. b. Explain the importance of "Rain water harvesting" in urban and rural scenario. (5) a. Explain in detail the source, effects and treatment for Pb, As and pesticide poisoning. 9. b. Illustrate Minamata incident. (5) 10. a. Discuss in detail on (6+6)(i) biodiversity (ii) EPA 1986 b. Describe "Polluter pays principle". What are the advantages and limitations of PPP? (8)
