C 25148		ages: 2) Nam		e	
			Reg.	No	
SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2012					
(CCSS)					
Biotechnology—Complementary Course					
BT2 C02—ENVIRONMENTAL BIOTECHNOLOGY					
Time: Three Hours			M	aximum : 30 Weightage	
I. Objective Type Questions. Answer <i>all</i> questions.					
A. Multiple Choice :					
1 Primary treatment of wastwater may involve :					
	(a) Activated sludge system.	(b)	Tridding filter process.		
	(c) Coagulation.	(d)	CSTR		
2 The catalyst used in the COD estimation of wastewater sample :					
	(a) Mercuric sulphate.	(b) F	Potassium dichromate.		
	(c) Silver sulphate.	(d)	H ₀ SO ₄ .		
3	MPN determination comes under :				
	(a) Presumptive test.	(b) (Confirmed test.		
	(c) Completed test.	(4) [None of the above.		
4 Chlorination involves the use of:					
	(a) AgCL	(b)	NaCl.		
	(c) Bleaching powder.	(d) (Chlorine gas.		
B Fill in the blanks : 5 COD stands for					
6 EPA stands for					
7					
8	8 CSTR stands for				
C. Name the following :-					
9 A flocculent used in the primary treatment of the effluent.					
10 Name any two methanogenic bacteria.					
11 Name any one anaerobic reactor system for wastewater treatment.					
12 Name any bacteria that is involved in bioteaching.					
				$(12 \text{ X}^{-1})_4 = 3 \text{ weightage})$	

Turn over

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- II. Short Answer Type Questions. Write briefly on:
 - 13 Rotating biological contactor.
 - 14 Stabilization pond.
 - 15 Indicator organisms.
 - 16 BGLB medium.
 - 17 Chlorination derived byproducts.
 - 18 Bioethanol.
 - 19 Biomagnitication.
 - 20 Biopesticides.
 - 21 Desalinization.

 $(9 \times 1 = 9 \text{ weightage})$

III. Short Essay or Paragraph Questions. Answer any five questions.

Write briefly on:

- 22 Total Dissolved Solids (TDS) and Total suspended solids.
- 23 Packed Bed Reactor.
- 24 UASB.
- 25 Biogas production.
- 26 Types of composting.
- 27 Bioremediation.
- 28 Biofertilizers.

(5 X 2 = 10 weightage)

- IV. Essay Questions. Answer any two questions. Explain the following:
 - 29 Solidwaste and its possible treatment strategies.
 - 30 Biodegradation and its applications.
 - 31 Rioteaching and the mechanism behind the process.

(2 X 4 = 8 weight)