C 25148 (Pages : 2)	Name						
	Reg. No						
SECOND SEMESTER B.Sc. DEGREE E	EXAMINATION, MARCH 2012						
(CCSS)							
Biotechnology—Complem	nentary Course						
BT2 C02—ENVIRONMENTAL BIOTECHNOLOGY							
Time: Three Hours	Maximum: 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) Ti	ridding filter process.						
(c) Coagulation. (d) C	STR.						
2 The catalyst used in the COD estimation of wa	stewater sample :						
(a) Mercuric sulphate. (b) Pota	assium dichromate.						
(c) Silver sulphate. (d) H	₉ SO ₄ .						
3 MPN determination comes under:							
(a) Presumptive test. (b) Cor	nfirmed test.						
(c) Completed test. (4) Nor	ne of the above.						
4 Chlorination involves the use of:							
(a) AgCl. (b) N	aCl.						
(c) Bleaching powder. (d) Chi	lorine gas.						
B Fill in the blanks :							
5 COD stands for							
6 EPA stands for							
7 APHA stands for							
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 wa	astewater 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	z on	•

- 13 Rotating biological contactor.
- 14 Stabilization pond.
- 15 Indicator organisms.
- 16 BGLB medium.
- 17 Chlorination derived byproducts.
- 18 Bioethanol.
- 19 Biomagnification.
- 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 Bioteaching and the mechanism behind the process.

 $(2 X 4 = 8 \text{ weight}^{2})$