D 30	0721 (Pages: 2) Name	•••
	Reg. No	••
	FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, OCTOBER 2012	
	(CCSS)	
	Microbiology	
	MB 5B 14—ENVIRONMENTAL AND SANITATION MICROBIOLOGY	
T :	Three Hours Maximum: 30 Weighta	ge
1 ime :	Section A	
	Answer all the twelve questions.	
1.	Composting of waste using earth worm is known as	
2.	All sulfate reducing bacteria all classified as	
3.	BOD is a measure of the presence of wastes.	
4.	The stage of sewage treatment in which micro-organisms are involved is	
5.	Example for a free living nitrogen fixer is	
6.	Red iron containing protein which has a role in Nitrogen fixation is	
7.	Full form of COD is	
8.	Association of Cyanobacteria and Anabena, Azolla is an example of	
9.	is named as super bug.	
10.	Fecal coliform produce a on EMB agar.	
11.	Musty or Earthy odour of freshly ploughed field is due to	
12.		
	(12 x = 3 weighta)	ge)
	Section B	
~	Answer all the nine questions in one or two sentences.	
	nent on	
13.		
14. 15.	•	
15. 16.		
10. 17.		
17.	• •	
10. 19.	•	
20.		
21		

Turn over

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

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Section C

Answer briefly any five questions.

Write short notes on:

- 22. Degradation of hydrocarbons.
- 23. Role of microbes in metal corrosion.
- 24. Microbial tests checking potability of water.
- 25. Trickling filters.
- 26. Airborne transmission of harmful microbes.
- 27. Microbial examination of air.
- 28. Biosphere.

 $(5 \times 2 = 10 \text{ weightage})$

Section D

Answer any two questions in detail.

- 29. Explain the different strategies for solid waste management giving special importance to microbial methods.
- 30. Symbiotic nitrogen fixation with example explaining the mechanism and process of nitrogen fixation.
- 31. Write an account on air home micro-organisms, principles and techniques of air sampling.

 $(2 \times 4 = 8 \text{ weightage})$