D 92	1070	(Pages : 2)	Name
			Reg. No
FIF' 1 SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015			
		(UG-CCSS)	
Core Course—Microbiology			
MB 5B 14—ENVIRONMENTAL AND SANITATION MICROBIOLOGY			
Time: Three Hours			Maximum: 30 Weightage
Section A			
		Answer all twelve questions. Each question carries $\frac{1}{4}$ weightage.	
1.	Escherichia coli is an	organism of water pollution.	
2.	Pollutants which are man	amade synthetic molecules are called -	
3.	Brilliant Green Lactose F	Bile broth is a medium used in ———	– test of water quality analysis.
4.	Soil immediately around	the root is called	
5.	Out of the four steps in the methane generation ————————————————————————————————————		
6.	Expand TDS, term used i	n waste water character.	
7.	Amensalism is a	interaction.	
8.	Azotobacter is a free livir	ng fixing bacteria.	
9.	The form of nitrogen that is most usable by the plant is ———		
10.			
11.	Formation of "infection t	hread" in certain root hairs is due to ba	acteria _——
12.	Growth of algae is promo	ted in oxidation pond to improve ——	
			$(12 \text{ x } \frac{1}{4} = 3 \text{ weightage})$
Section B			
Answer all the nine questions in one or two sentences. Each question carries 1 weightage.			
13.	Compensation level.	14. Bio leaching.	
15. Slit sampler.		16. Infectious dust.	
17. Lithosphere.		18. Predation.	
19. Secondary consumer.		20. Halotolerents.	
21.	Antibiosis.		
			$(9 \times 1 = 9 \text{ weightage})$

Turn over

Section C

Answer briefly on any **five** questions. Each question carries 2 weightage.

22. Phosphorus cycle. 23. Bioremediation.

24. Vermicomposting. 25. Denitrification.

26. BOD. 27. Sanitary Landfills.

28. Septic tank.

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

Section D

Answer briefly any **two** questions. Each question carries 4 weightage.

- 29. What is meant by presumptive colifom count? Discuss the qualitative methods of water qua analysis.
- 30. Discuss briefly about the negative interactions of microbial populations in soil.
- 31. Discuss briefly about air borne diseases.

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