D 70332		(Pages: 2)	Name
			Reg. No
FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2019			
(CUCBCSS—UG)			
Microbiology			
MBY 5D 02—ENVIRONMENTAL MICROBIOLOGY			
Time: Two Hours Maximum: 40 Marks			
Part A			
Answer all questions.			
Each carries ½ mark.			
Fill in the blanks:			
1. ———— is the enzyme which helps in nitrogen fixation.			
2.	The position that an organism occupies in a food chain is called ———.		
3.	The substances that resist biode	egradation are called ———	 ,
4.	The term — includes the physical space occupied by an organism and also its functional role in the community.		
5.	The process of synthesis of organic matter by plants from carbon dioxide and water is known as ————.		
6.	is a mixture of gases	s produced by the anaerobic	breakdown of organic matter.
7.	E.coli is an example for	— pollution indicator orga	nism in water.
8.	The residue of small droplets left after drying in air is known as ————.		
9.	Gaseous component of earth is	known as ———,	
10.	Cholera is a ——— borne d	isease.	
			$(10 \times \frac{1}{2} = 5 \text{ marks})$
Part B			

Answer any **five** questions. Each carries 2 marks.

Comment on the following:

11. Food web.

12. Acid rain.

13. Humus.

14. Trickling filter.

Turn over

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15. Nitrogen fixation.

16. Biomagnification.

17. Biogas.

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

Part C

Answer any three questions. Each carries 5 marks.

Write briefly:

- 18. Air borne diseases.
- 19. Rhizosphere and R: S ratio.
- 20. Microbiological examination of drinking water.
- 21. Nitrogen cycle.
- 22. Components of ecosystem.

 $(3 \times 5 = 15 \text{ marks})$

Part D

Answer any one question.
It carries 10 marks.

- 23. Write about water borne diseases.
- 24. Discuss about the global environmental problems.

 $(1 \times 10 = 10 \text{ marks})$

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