• All ques	tions are comp	EXAM MARKS 75	- 111/2
• Draw di	agram whereve		
Q I. (A) Explain the term. (Any 4)		i necessary	(0)
 Negative interaction commensalism Protocooperation Mutualism Q I. (B) Explain any two of the following. (A) Nitrogen cycle Sulphur cycle Antagonism with suitable example. 	 6. Prec 7. Syne 8. Hab 	ngonism lation ecology itat	(12)
4. Amensalism with suitable example.			
Q II. (A) I) State true or false and correct th	ne sentence if fa	alse. (Any 2)	(4)
1. Air possesses normal flora.	A Company of the London		
2. The germicidal lamp that is used in ultra v	violet light is a le	ow pressure tungsten	lamp.
3. The production of ammonia is an essentia	I stage in the for	rmation of nitrate in so	oil.
4. Azotobacter never produces cysts.			
Q II. (A) II) Explain the term. (Any 2)			(4)
1.Droplet			
2.Product sanitation.			
3.Rhizosphere.			
4. Operating room sanitation.			
Q II. (B) Answer (any two) of the following.		(12)	llo compler
1.Explain in brief: Enumeration of bacteria in a	air by using Ho	Hander and Dalla va	ne sampler.
2.Explain in brief: Enumeration of bacteria in a	air by using Klu	iyver and visser sam	pier.
3.Effect of photosynthetic bacteria on soil.			
4.Explain in brief: Enumeration of bacteria in a	air by using filt	ration and sedimenta	tion.
		Contd/	

Q.III (A) Explain (any four) of the following (08)

1.Coliforms

5. Reverse Osmosis s

2. Activated Sludge

6. Combined Sewers

3.BOD

7. Ozonation

4. Wetlands

8. Composting

Q. III (B) Answer (any two) of the following.

(12)

- 1. Describe the tertiary treatment of wastewater.
- 2. Give a brief account on trickling filters.
- 3. Explain the role of indicator microorganisms in bacteriological analysis of water.
- 4. Describe in brief about anaerobic process of stabilization of sewage

Q IV. Write a note on (Any 3)

(15)

- 1. Succession of population.
- 2. Cometabolism
- 3. Asymbiotic nitrogen fixation
- 4. Enumeration of bacteria in air by centrifugation (Well's sampler).
- 5. Disinfection of potable water.
- 6. Oxidation ponds
