

**FIRST SEMESTER M.Sc. (MICROBIOLOGY) DEGREE EXAMINATION
JUNE 2008****MBI.3.T ENVIRONMENTAL AND SANITATION MICROBIOLOGY**

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A*Write about/answer **all** questions each in two or three sentences.*

1. Role of Microbes in sulphur cycle.
2. Plant growth promoting **rhizobacteria**.
3. What are **bacteroid** ?
4. Differentiate Commensalism and **mutualism**.
5. **Actinorhizal** symbiosis.
6. Role of **mycorrhiza** in soil fertility.
7. Role of **BGLB** medium in Water analysis.
8. Explain gasification.
9. Why is **E.coli** used as an indicator organism.
10. **Aeroallergens**.
11. Comment on UV disinfection of water.
12. Importance of Nitrifying bacteria.
13. What is presumptive test.
14. Slit sampler.
15. **Xenobiotics**.
16. Rotating biological reactor.
17. Marine pollution.
18. **Biosurfactant**.
19. Biodegradation of petroleum wastes.
20. Sewage treatment.

(20 x 2 = 40 marks)

Section B*Write notes on/discuss any **five** of the following.*

1. Indicate the methods used for detection of air **microflora**.
2. What are the precautions to be taken against microbial warfare.

Turn over

3. **Legume-Rhizobium** symbiosis.
4. Concept of microbial infallibility.
5. Bacteriological analysis of drinking water.
6. Waste water management.
7. Methods of Air sanitation

(5 X 8 = 40 marks)