

**D 93008**

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Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015**

(CUCSS)

Microbiology

**MB1 C03—ENVIRONMENTAL AND SANITATION MICROBIOLOGY**

(As per 2010 Admission syllabus)

Time : Three Hours

Maximum : 36 Weightage

**Section A**

*Write briefly on the following.  
Each question carries 1 weightage.*

1. Zymogenous group.
2. Parasitism.
3. Antibiosis.
4. Microbial sulphur oxidation.
5. Slit sampler.
6. *Clostridium welchii* as indicator of water pollution.
7. MPN.
8. Chlorination of water.
9. Ozonation of water.
10. Quick sand filter.
11. Antimicrobial activity of potassium permanganate.
12. Candle filters.
13. Xenobiotics.
14. BOD.

(14 x 1 = 14 weightage)

**Section B**

*Answer the following.  
Each question carries 2 weightage.*

Write notes on :

15. Soil as source of industrial strains.
16. Role of microbes in Phosphorous cycle.

Turn over

17. Quantification of air microflora.
18. Early warning of diseases by air monitoring.
19. Various steps in water purification.
20. Treatment of tannery and slaughter house waste.
21. Biosensors.

(7 x 2 = 14 weightage)

### **Section C**

*Answer the following.*

*Each question carries 4 weightage.*

22. Describe air sanitation techniques.
23. Discuss plant-microbe interactions.

(2 x 4 = 8 weightage)