



K16U 2506

Reg. No. : .....

Name : .....

I Semester B.Sc. Degree (C.C.S.S. – Reg./Supple./Improv.) Examination,  
November 2016

**CORE COURSE IN MICROBIOLOGY**  
**1B01MCB : General Microbiology**  
**(2014 Admn. Onwards)**

Time : 3 Hours

Total Marks : 40

**SECTION – A**

Answer **all** questions :

1. The concept of spontaneous generation was disproved by the experiments of \_\_\_\_\_.
  2. Name one spirochaete.
  3. The polyphosphate reserve material found in bacteria are called \_\_\_\_\_.
  4. Murashige-Skoog's Media is used in \_\_\_\_\_.
- (4×1=4)**

**SECTION – B**

Answer very briefly on **any seven** of the following :

Comment on the following :

5. Principle of dark field microscope.
6. Major contributions of Robert Koch to microbiology.
7. Robertson's cooked meat media.
8. Bactericidal and Bacteriostatic agents.
9. Mesosomes.
10. Chick-Martin Test.

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11.  $\beta$ -lactam antibiotics.
12. Colony forming units.
13. Lyophilization.
14. Negative staining.

(7×2=14)

SECTION – C

Answer **any four** of the following :

15. Write a note on gaseous sterilizing agents.
16. Discuss the methods used for isolation of pure cultures.
17. Describe the ultrastructure of bacterial flagella.
18. Discuss various factors influencing sterilization by heat.
19. Enumerate the morphological features of fungal thallus.
20. Write a note on transmission electron microscope.

(4×3=12)

SECTION – D

Answer **any two** of the following :

21. What are disinfectants ? Write a note on common disinfectants used in microbiology laboratories.
22. Discuss differentiating features of procaryotic and eucaryotic cells. Write a note on eucaryotic micro organisms.
23. What is the principle of staining ? Write a note on staining techniques used in microbiology laboratories.
24. What are the nutritional requirements for bacterial growth ? Discuss common ingredients used for the preparation of bacteriological media.

(2×5=10)