



K18U 2191

Reg. No. : SPITCMIR17

Name : Varsha

I Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.)

Examination, November 2018

(2014 Admission Onwards)

CORE COURSE IN MICROBIOLOGY

1B01MCB : General Microbiology

Time : 3 Hours

Max. Marks : 40

SECTION – A

Answer all four questions.

- ① The method used to sterilize heat labile liquids is _____
2. _____ is the locomotory organelle of bacteria.
- ③ Lyophilization works under the principle of _____
4. Chemicals that can hinder the growth of bacteria are called _____

(4×1=4)

SECTION – B

Answer very briefly on any seven questions out of ten.

Comment on the following :

- ~~5.~~ Resolving power.
- ~~6.~~ Pure culture.
- ⑦ Nucleoid.
- ⑧ Differential media.
- ⑨ Animal tissue culture.

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10. Cold sterilization.
11. Phenol coefficient.
12. Streak plate technique.
13. Biogenesis.
14. Cyst.

(7×2=14)

SECTION – C

Answer **any four** questions out of **six** briefly.

15. Koch's postulates.
16. Explain the principle of Gram's staining.
17. Describe the structure of bacterial endospore.
18. Explain the structure of virus with a neat labelled diagram.
19. What is a plant tissue culture media ? What are its major components ?
20. Discuss the various sterilization methods that works based on dry and moist heat.

(4×3=12)

SECTION – D

Answer **any two** questions out of **four**.

21. Compare the ultra-structure of eukaryotic cell with prokaryotic cell using neat labelled diagrams.
22. Explain the working of bright field and dark field microscopes using proper diagrams.
23. Discuss on Pure culture techniques.
24. Comment on the different types of chemical anti-microbial agents. List the characteristics of an ideal anti-microbial agent.

(2×5=10)