

D 53000

(Pages : 2)

Name

Reg. No......

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2014

(CUCSS)

General Biotechnology

GB IC 03—MICROBIOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answer **all** questions.*

Each question carries 1 weightage.

1. Tyndallization.
2. Chemolithotroph.
3. Causative agent of Diphtheriae.
4. What is fermentation ?
5. Refractive index of air.
6. The viruses attack algae is known as _____
7. The fungi which infect keratinized tissue is called _____
8. Blood agar is a _____ ~~medium.~~ _____
9. The common media used for cultivation of fungi is _____
10. Bacteriophages follow both lytic and lysogenic cycles is called _____

(10 x 1 = 10 weightage)

Section B

*Answer any **seven** questions.*

Each question carries 2 weightage.

11. Explain physical sterilization methods.
12. Describe the molecular approaches in microbial taxonomy.
13. What is symbiosis ? Give the examples of fungal symbiosis.
14. Explain bacterial photosynthesis.
15. Discuss about different mode of microbial interaction with man.
16. Give an account on medically important fungi.
17. Explain pure culture techniques.

Turn over

18. Explain the principle and application of confocal microscope.
19. Explain different mode of transport of nutrients.
20. What is congenital infections ? Explain any *two* congenital infection.

(7 x 2 = 14 weightage)

Section C

*Answer any **two** questions.*

Each question carries 6 weightage.

21. Explain aerobic and anaerobic process of waste water treatment.
22. Discuss about different plant microbe interactions.
23. Write an essay on different approaches adopted in bacterial classification.

(2 x 6 = 12 weightage)