

D 72919

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Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2014

(CUCSS)

General Biotechnology

GB 1C 3—MICROBIOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answer **all** questions.*

Each question carries 1 weightage.

1. Inspissiation.
2. Plasmogamy.
3. Generation time.
4. YM shift.
5. Mutualism.
6. ~~Liquid paraffin can be sterilized by~~ _____
7. ~~The refractive index of oil is~~ _____
8. ~~Bacterial capsule is made up of~~ _____
9. ~~Conjugation is mediated through~~ _____
10. ~~Phenol is used as~~ _____

(10 x 1 = 10 weightage)

Section B

*Answer any **seven** questions.*

Each question carries 2 weightage.

11. Biological sterilization.
12. Classify bacteria based on morphology.
13. Contributions of Pasteur in the field of microbiology.
14. Give an account of Biopesticides and Bioinsecticides.
15. Mode of infection, pathogenesis and prophylaxis of Malaria.
16. Describe bacteriological examination of drinking water.
17. Explain bacterial growth curve.
18. Explain the principle and application of fluorescent microscope.
19. Describe the structure of bacteriophage.
20. Explain Methanogenesis.

(7 x 2 = 14 weightage)

Turn over

section C

*Answer any **two** questions.*

Each question carries 6 weightage.

21. Write an essay on different classes of chemotherapeutic agents and their mode of action.
22. Describe the role of microbes in phosphorus and nitrogen cycle.
23. Describe glyoxylate cycle and enter duodroff pathway.

(2 x 6 = 12 weightage)