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Name........................................

Reg. No....................................

# FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018

## (CUCBCSS—UG)

### Core Course (Microbiology)

### MBY 1B 01—GENERAL MICROBIOLOGY

Time : Three Hours

Maximum : 80 Marks

## Part A

*Answer **all** questions.*
*Each question carries ½ mark.*

1. Name the scientist who introduced antiseptic surgery.

2. Peptidoglycan is made up of ————— and —————.

3. In moist heat sterilisation, the microbes are destroyed because ————— of proteins occur.

4. Antirabies vaccine was first developed by —————.

5. What is the function of the condensor in a light microscope ?

6. Name the locomotor structure in bacteria.

7. Capsid is the outer protein coat of —————.

8. Tyndallisation is a ————— heat method for microbial control.

9. Heat labile fluids are made bacteria free by —————.

10. Mycoplasma are bacteria devoid of —————.

11. Whose findings had lead to discovery of penicillin ?

12. Auramine dye is used in ————— microscopy.

(12 × ½ = 6 marks)

## Part B

*Answer **all** questions.*
*Each question carries 2 marks.*

Comment on the following :

13. Eye piece.

14. Peritrichous flagella.

15. Safranin.

16. Metachromatic granules.

**Turn over**

17. Dimorphic fungi.

18. Incineration.

19. Theory of biogenesis.

20. Antony Van Leeuwenhoek.

21. Hot air oven.

22. Arrangement of bacterial cells.

(10 × 2 = 20 marks)

## Part C

*Write briefly on any* **six** *questions.*
*Each question carries 5 marks.*

23. Koch's postulates.

24. Archaebactera.

25. Morphological forms of fungi.

26. History of vaccine development.

27. Gram's staining.

28. Phenol co-efficient.

29. Differences between prokaryotes and eukaryotes.

30. Electron microscopy.

(6 × 5 = 30 marks)

## Part D

*Answer any* **two** *questions.*
*Each question carries 12 marks.*

31. Describe the different physical agents used for control of micro organisms.

32. Discuss the different chemical antimicrobial agents. Write a note on an ideal chemical antimicrobial.

33. Describe the differential and special staining methods in Microbiology.

(2 × 12 = 24 marks)