

PART B

Answer any *five* questions. Each question carries 2 marks.

11. Define numerical aperture.
12. What is dimorphic fungus?
13. Define budding.
14. Describe how agar is well suitable as a solidifying agent.
15. Koch's postulates.
16. Differentiate between Procaryotes and Eucaryotes.
17. Define generation time.

(5 x 2 = 10 Marks)

PART C

Answer any *six* questions. Each question carries 5 marks.

18. Briefly describe how spontaneous generation theory was disproved.
19. Explain Fluorescence Microscope.
20. What are the different methods of fungal reproduction?
21. Contributions of Louis Pasteur?
22. Briefly write on bright field and dark field microscopy.
23. Bacterial motility and flagella.
24. Nutritional types of bacteria based on sources of carbon, energy, and electron.
25. Economic importance of fungi.

(6 x 5 = 30 Marks)

PART D

Answer any *two* of the following. Each question carries 15 marks.

26. What are the characteristic features of viruses? Describe the replication of virus.
27. Explain bacterial growth curve and its significance.
28. Bacterial Conjugation and its importance.
29. What is the principle of electron microscopy? Explain Transmission Electron Microscope and Scanning Electron Microscope.

(2 x 15 = 30 Marks)
