

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**SEMESTER EXAMINATIONS****NOVEMBER - 2017****15CMB1A****GENERAL MICROBIOLOGY****Time : 3 Hours****Max. Marks : 75****SECTION – A (10 x 2 = 20)****Answer ALL the questions.****Define / Explain the following.**

1. Antony Van Leeuwenhoek.
2. Resolving Power.
3. Taxonomy.
4. Prokaryotes.
5. Pasteurization.
6. Chemotherapy.
7. Culture media.
8. Staining.
9. Photosynthesis.
10. Fermentation.

SECTION – B (5 x 5 = 25)**Answer any FIVE of the following questions.**

11. Explain the Koch Postulates.
12. Give an account on the general characteristics of Viruses.
13. Describe the ultrastructure of flagella.
14. Discuss about the dry heat sterilization.
15. Mention the types of culture media with suitable examples.
16. Narrate the process of simple staining.
17. Write a short note about the mechanism of photosynthesis.
18. Comment on Cyanobacteria.

SECTION – C (3 x 10 = 30)**Answer ALL the questions.**

19. (a) Explain in detail the working principle of Phase contrast microscope with diagram.

(Or)

- (b) Discuss the ultrastructure of gram positive cell wall of bacteria.

20. (a) Define sterilization and give detailed notes on its types.

(Or)

- (b) Write an essay about the preservation of culture.

21. (a) Explain the different phases of bacterial growth curve.

(Or)

- (b) Explain the antimicrobial resistance testing methods.