

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE – 1**SEMESTER EXAMINATIONS****NOVEMBER – 2016****15CMB1A****GENERAL MICROBIOLOGY****Time: 3 Hrs****Max. Marks: 75****SECTION – A (10 X 2 =20)****Answer ALL the questions.**

1. What is resolving power?
2. Define virus.
3. Define slime layer.
4. Define nomenclature.
5. What is tyndallization?
6. What are antiseptics?
7. Define media.
8. What are basic dyes?
9. What are micronutrients?
10. Define oxidative phosphorylation.

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

11. Briefly describe about Koch postulates.
12. Write the working principle of fluorescence microscope with neat diagram.
13. Discuss the Whittaker's five – kingdom concept.
14. Write short notes on structure and arrangement of bacterial flagella.
15. With a neat diagram explain the Kirby Bauer Test.
16. Explain about hot air oven.
17. What are the different types of media? Describe with few examples.
18. What are the different phases of growth? Explain.

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

19. a) Explain in detail about TEM.

(Or)

- b) Explain in detail about the cell wall of Gram positive and Gram negative bacteria.

20. a) Define disinfectant. What are the different types of disinfectants used in microbiology lab?

(Or)

- b) What are anaerobes? Explain the anaerobic cultivation methods.

21. a) Define fermentation. What are the different types of fermentation? Explain.

(Or)

- b) Explain Spontaneous generation versus Biogenesis.