



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FOURTH SEMESTER – APRIL 2014

ZO 4811 - MICROBIOLOGY

Date : 02/04/2014

Dept. No.

Max. : 100 Marks

Time : 01:00-04:00

Part A

Answer All the questions

(10×2=20 Marks)

1. Name any two important scientists contributed to microbiology.
2. Define Whittaker's classifications.
3. Differentiate cilia from flagella with examples.
4. List out the factors influencing the microbial growth.
5. How will you differentiate defined media from differential media?
6. Comment on Hfr conjugation.
7. Write the salient features of *Lactobacillus* and *Bifidobacterium*.
8. Define Bioleaching.
9. Enlist the food borne diseases.
10. Name any four microbial insecticides.

Part B

Answer any FOUR questions

(4×10=40 Marks)

11. What is staining? Explain the different methods of staining microorganisms.
12. Explain the relationship of human with microorganism.
13. Write an account on microbial growth.
14. Describe the role of RNA in biosynthesis.
15. Differentiate moist from dry sterilization methods.
16. Write notes on the use of microorganism in food industry.

Part C

Answer any TWO questions

(2×20=40 Marks)

17. Explain the different theories of origin of microbes.
18. Describe cytoplasmic membrane and cell wall of prokaryotes.
19. What is DNA repair? Explain DNA repair mechanism and recombination.
20. Write an essay on Industrial microbiology.
