LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034



M.Sc. DEGREE EXAMINATION - ZOOLOGY

FOURTH SEMESTER - APRIL 2015

ZO 4811 - MICROBIOLOGY

Date: 15/04/2015	Dept. No.	Max.: 100 Marks
Time: 09:00-12:00	l	

Part A

Answer ALL the questions:

 $(10\times2=20 \text{ Marks})$

- 1. Define on pasteurization.
- 2. Comment on Whittaker's classification.
- 3. List out the factors influencing microbial growth.
- 4. How will you differentiate defined media from differential media?
- 5. Comment on horizontal gene transfer.
- 6. Write the salient features of Lactobacillus and Bifidobacterium.
- 7. Differentiate intrinsic factor from extrinsic factor affecting the food.
- 8. Comment on type IV secretion.
- 9. What is River blindness?
- 10. Define biodegradation.

Part B

Answer any FOUR questions:

 $(4\times10=40 \text{ Marks})$

- 11. Explain the available staining methods of microorganisms.
- 12. Describe Whittaker's five kingdom classification.
- 13. Illustrate the cell wall and cytoplamic membrane of the prokaryotes.
- 14. Explain the relationship of human with microorganism.
- 15. What are the types of RNA? And describe the role of RNA in biosynthesis.
- 16. Give an account on applied microbiology.

Part C

Answer any TWO questions:

 $(2\times20=40 \text{ Marks})$

- 17. Discuss different theories on origin of microbes.
- 18. Explain microbial nutrition.
- 19. Write an essay on industrial microbiology.
- 20. Explain horizontal gene transfer process.
