



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FOURTH SEMESTER – APRIL 2016

ZO 4811 - MICROBIOLOGY

Date: 15-04-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part A

Answer ALL the questions

(10×2=20 Marks)

1. Microorganism arise from spontaneously – Justify.
2. Differentiate acidophilic from basophilic stain.
3. Differentiate Obligate from facultative growth.
4. What is intoxication? Give two examples.
5. Mention the proteins involved in DNA replication.
6. What is specialized gene transfer?
7. What is β -Lactam and give an example?
8. Write the salient features of *Bifidobacterium*.
9. Differentiate chemostat from thermostat.
10. Comment on bioaugmentation.

Part B

Answer any FOUR questions

(4×10=40 Marks)

11. Write two important scientists contribution to microbiology.
12. Describe the microscopical methods to study microorganism.
13. Give an account on gram staining.
14. Describe the anatomy and structure of prokaryotes.
15. Explain the human diseases caused by bacteria and Fungi.
16. Give an account on food microbiology.

Part C

Answer any TWO questions

(2×20=40 Marks)

17. Discuss different theories on origin of microbes.
18. What are types of replication? And explain the mechanism of DNA replication in prokaryotes.
19. Write an essay on pathogenicity of microorganism and epidemiology of infectious disease.
20. Write an essay on sterilization methods.
