



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY & BIOTECHNOLOGY

FIFTH SEMESTER – APRIL 2014

PB 5405 - MEDICAL MICROBIOLOGY

Date : 11/04/2014

Dept. No.

Max. : 100 Marks

Time : 01:00-04:00

Part A

Answer the following, each within 50 words:

(10 x 2 = 20 marks)

1. Distinguish between an antiseptic and disinfectant.
2. What is Thermal death time?
3. Comment on β -lactam ring.
4. Give the contribution of Gelmo.
5. What is a taxoid?
6. What are macrophages?
7. Define amoebiasis.
8. Comment on acid-fast staining.
9. What is VDRL?
10. Name the causal organism of Gonorrhoea.

PART B

(5 x 7 =

35 marks)

Answer the following, each within 500 words. Draw diagrams and flowcharts wherever necessary.

11. (a) Compare moist heat and dry heat sterilization.

(or)

- (b) List out the characteristics of antimicrobial chemical agent.

12. (a) Discuss the function of sulfonamides.

(or)

- (b) Write notes on antibiotic sensitivity test.

13. (a) Explain the normal microbial flora of skin.

(or)

- (b) Briefly discuss on complement fixation.

14. (a) Write on the pathogen, diagnosis and control measures of Cholera

(or)

(b) Write on the pathogen, diagnosis and control measures of Chickenpox

15.(a) Write an account on causal organism, symptoms and control measures of Syphilis

(or)

(b)Mention the causal organism, symptoms and control measures of

Dermatophytoses.

PART C

(3 x 15 = 45 marks)

Answer any three of the following, each within 1200 words only. Draw diagrams and flowcharts wherever necessary.

16. Discuss the different types of filtration techniques used to control microorganisms.

17. Give the source, mode of action and applications of streptomycin.

18. Explain host-pathogen interactions during pathogenesis.

19. Give a detailed account on the pathogen, symptoms, diagnosis and control measures of

Hepatitis.

20. Write an account on causal organism, symptoms and control measures of Malaria.