



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

FIFTH SEMESTER – APRIL 2017

PB 5405/ PH 5402 - MEDICAL MICROBIOLOGY

Date: 02-05-2017
01:00-04:00

Dept. No.

Max. : 100 Marks

Part- A

(10 x 2 = 20 marks)

Answer the following, each within 50 words.

1. Mention the contributions of Louis Pasteur.
2. Comment on membrane filtration.
3. Give the importance of streptomycin.
4. What is antibiosis?
5. Write short notes on agglutination reaction.
6. Give the roles of natural killer cells.
7. Write about the symptoms of chicken pox.
8. Mention the salient features of amoebiasis.
9. Expand ELISA. Mention its applications.
10. Mention the pathogen that causes syphilis.

Part – B

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

(5 x 7 = 35 marks)

11. (a) Explain the principles and applications of filtration in sterilization.

Or

- (b) Enumerate the contributions of Robert Koch and Joseph Lister.

12. (a) Give the functions of sulpham drugs with illustration.

Or

- (b) Write notes on antibiotic sensitivity tests.

13. (a) Write notes on normal microflora of skin.

Or

- (b) Elaborate on any 2 immunological techniques used in disease diagnosis.

14. (a) Mention the pathogen and explain the symptoms and control of TB.

Or

- (b). Write about the pathogen, disease cycle and control measures of candidiasis.

15. (a) Cite the pathogen, symptoms and control measures of dermatophytes.

Or

- (b) Mention about the pathogen, disease cycle and control measures of cholera.

Part – C

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

(3 x 15 = 45 marks)

16. Write detailed notes on the temperature in control of microbial growth.
17. Mention the sources, structure, mode of action and uses of penicillin.
18. Explain about natural defense mechanism in the human body.
19. Describe the pathogen, symptoms, diagnosis and control of jaundice.
20. Explain the life cycle of HIV. Add a note on its diagnosis.

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