



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – NOVEMBER 2016

PB 5405 - MEDICAL MICROBIOLOGY

Date: 09-11-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part – A

(10 x 2 = 20 Marks)

Answer the following, each within 50 words.

1. Mention the contributions of Robert Koch.
2. Comment on thymine dimerization.
3. Give the importance of β -lactam ring.
4. What is chemotherapy?
5. Write short notes on agglutination reaction.
6. Give the roles of natural killer cells.
7. Write about the symptoms of histoplasmosis.
8. Mention the salient features of *Mycobacterium tuberculosis*.
9. Expand ELISA. Mention its applications.
10. Mention the pathogen that causes AIDS.

Part – B

(5 x 7 = 35 Marks)

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

11. a) Explain the principles and applications of radiation in sterilization.
Or
b) Enumerate the contributions of Louis Pasteur and Joseph Lister.
12. a) Give the functions of sulpha drugs with illustration.
Or
b) Write notes on antibiotic sensitivity tests.
13. a) Write notes on normal microflora of intestine.
Or
b) Elaborate on any 2 immunological techniques used in disease diagnosis.
14. a) Mention the pathogen and explain the symptoms and control of hepatitis.
Or
b) Write about the pathogen, disease cycle and control measures of skin diseases.
15. a) Cite the pathogen, symptoms and control measures of tetanus.
Or
b) Mention about the pathogen, disease cycle and control measures of cholera.

Part – C

(3 x 15 = 45 Marks)

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

16. Write detailed notes on the alcohols and phenols in the control of microbial growth.
17. Mention the sources, structure, mode of action and uses of streptomycin.
18. Explain about natural defense mechanism in the human body.
19. Describe the pathogen, symptoms, diagnosis and control of syphilis.
20. Give details on the life cycle of malarial parasite. Add a note on its diagnosis.
