



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

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

**FIFTH SEMESTER – APRIL 2016**

**PB 5405 - MEDICAL MICROBIOLOGY**

Date: 29-04-2016  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

**Part – A**

Answer the following, each within 50 words only.

(10 x 2 = 20)

1. Mention the contributions of Louis Pasteur.
2. Comment on HEPA.
3. Give the mode of action of penicillin.
4. What is chemotherapy?
5. Write short notes on antigen-antibody reaction.
6. List out the natural defense systems of human body.
7. What are the symptoms of rabies?
8. Mention the salient features of cholera toxin.
9. Expand ELISA. Mention its applications.
10. Mention the pathogens that cause STD.

**Part – B**

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

(5 x 7 = 35)

11. (a) Describe the principles and applications of moist heat sterilization.  
Or  
(b) Enumerate the contributions of Robert Koch and Joseph Lister.
12. (a) With suitable diagrams, explain the functions of sulpha drugs.  
Or  
(b) Write notes on antibiotic sensitivity tests by disc diffusion method.
13. (a) Write notes on normal microflora of skin.  
Or  
(b) Elaborate on any 2 immunological methods in disease diagnosis.
14. (a) Mention the pathogen and explain the symptoms and control of dermatophytoses.  
Or  
(b). Write about the pathogen, disease cycle and control measures of amoebiasis.
15. (a) Cite the pathogen and write notes on symptoms and control measures of TB.  
Or  
(b) Mention the pathogen and explain the disease cycle and control measures of hydrophobia.

**Part – C**

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

(3 x 15 = 45)

16. Write detailed notes on the various chemicals used in the control of microbial growth.
17. Mention the sources, structure, mode of action and uses of streptomycin.
18. Explain adaptive immunity developed by human body.
19. Describe the pathogen, symptoms, diagnosis and control of Hepatitis.
20. Give details on the life cycle of malarial parasite. Add a note on its diagnosis.

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