



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – NOVEMBER 2017

PB 5405 – MEDICAL MICROBIOLOGY

Date: 13-11-2017

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

Answer the following, each within 50 words

(10 x 2 = 20 marks)

1. Differentiate antiseptic and sanitizer.
2. Comment on HEPA filters.
3. What are antifungal antibiotics?
4. Write short notes on Kirby Boyers test.
5. Enumerate the normal microflora of vagina.
6. Give the functions of macrophages.
7. List out the symptoms of Amoebiasis.
8. Bring out features of chicken pox pathogen.
9. Write about the symptoms of syphilis.
10. Give the features of rabies virus.

PART – B

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

(5 x 7 = 35 marks)

11. (a) Compare and contrast moist heat and dry heat sterilization.
(or)
(b) Give the contributions of Edward Jenner and Elie Metchnikoff.
12. (a) Explain the mode of action of phenols. Add notes on its applications.
(or)
(b) Bring out the features and mechanism of action of sulfa drugs.
13. (a) Explicate the chemistry and the functions of endotoxins you have studied.
(or)
(b) Explain the normal micro-flora of skin with their roles.
14. (a) Mention about the pathogen, disease cycle and control measures of hepatitis.
(or)
(b) Write about the pathogen, disease cycle and control measures of cholera.
15. (a) Describe the disease cycle and the control measures of AIDS.
(or)
(b) Explain about the disease cycle and the control measures of tetanus.

PART – C

Answer any THREE of the following, each within 1200 words, draw diagrams wherever necessary.
(3 x 15 = 45 marks)

16. Enumerate the properties of chemo sterilizers. Add note on heavy metals and alcohols.
17. Give the sources, chemical nature, mode of action and application of streptomycin.
18. Explain various antigen and antibody reactions used in disease diagnosis.
19. Write notes on pathogen, disease cycle, diagnoses and control measures of tuberculosis.
20. Describe the disease cycle, diagnoses and the control measures of malaria.
