LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION - PLANT BIOLOGY & PLANT BIO-TECH.

FIFTH SEMESTER – NOVEMBER 2007	
PB 5401 - MEDI	CAL MICROBIOLOGY AE 8
Date: 03/11/2007 Dept. No. Time: 9:00 - 12:00	Max.: 100 Marks
SECTION-A (20 marks)	
Answer all questions I. Choose the correct answer.	(5x1=5 marks)
O1. Statement A: Bacteriostatic agents kill the mic Statement B: Injury caused by them is reversil a. Statement A is correct, but Statement B is in b. Statement B is incorrect, but Statement A is c. Both A and B are correct d. Both A and B are incorrect	ole. correct
02. The source of streptomycin is: a Streptomyces b Streptococcus c. Str. 02. Which are of the following is not a virulence of	· = · · · · · · · · · · · · · · · · · ·
03. Which one of the following is not a virulence f a. Exotoxins b. Endotoxins c. Cap	
04. Hepatitis is an example for infection. a. Viral b. Bacterial c. Fu	ngal d. Protozoa
05. The causal organism of syphilis is a a. Diplococcus b. Spirochaete c. Str	: eptomyces d. Bacillus
II. State whether the following statements True or	False. $(5x1=5 \text{ marks})$
06. Plasmolysis results in cell bursting. 07. Sulphonamides are synthetic chemotherapeutic 08. Phagocytosis comes under nonspecific immuni 09. Genetically engineered vaccine is available aga 10. Typhus fever is caused by <i>Salmonella typhi</i> .	ity.
III. Complete the following.	(5x1=5 marks)
11. Ethylene oxide is an example of	of test.
IV. Answer the following each within 50 words.	(5x1=5 marks)
 16. Write about the significance of phenol. 17. Mention the source and mode of action of Penil 18. What is absolute immunity? 19. Write any two cultural features of Mycobacters 20. Name any two drugs used in the treatment of n 	ium tuberculosis

SECTION-B

Answer any FIVE of the following, each within 350 words only. (5x8=40 marks)

- 21. Write about radiation as a physical method of control.
- 22. What are antibiotics? Write down their properties. Mention the source, mode of action and spectrum and activity of Griseofulvin.
- 23. Give an outline of immunity, mentioning the salient aspects.
- 24. Discuss the symptoms, lab diagnosis and prevention of chicken pox.
- 25. Write about the causal organism, symptoms and treatment of Gonorrhoea.
- 26. Expand the following with a footnote each.
 - i. BCG
- ii. SIDS
- iii. ORT
- iv. HAV

- 27. Distinguish between
 - i. Autoclave and Arnold Sterilizer
- ii. Synthetic drug and antibiotic
- iii. Resident flora and transient flora
- iv. Amoebiasis and Histoplasmisis (causal organism)
- 28. Define the following:
 - i. Credes method ii. Metabolic analog
- iii. Septicaemia
- iv. Tubercles

SECTION-C

Answer the following each within 1500 words.

(2x20=40 marks)

29. a. Give an account of chemical methods of control of microbes.

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- b. Describe the causal organism, symptoms, lab. diagnosis and treatment of cholera.
- 30. a. Discus the causal organism and symptoms of AIDS. What measures could be taken to print AIDS.

or

b. Explain the following:

i. Filtration

ii. Competitive inhibition

iii. Transmission of disease

iv. Symptoms and treatment of rabies
