

SEM	SET	PAPER CODE	TITLE OF THE PAPER
IV	2013	12PBO4116	MICROBIOLOGY

**SECTION – A****Answer all the questions:****20 x 1 = 20****Choose the correct answer:**

1. Mycoplasma differ from bacteria is not possessing.  
a) Cell membrane                      b) Ribosome  
c) Cell wall                                d) DNA
2. *Clostridium perfringens* poison is associated with  
a) Meat products                        b) Vegetables  
c) Canned foods                         d) Dairy products
3. Which of the following is the general mechanism of action for erythromycin?  
a) Inhibition of Cell wall synthesis                      b) Inhibition of metabolic enzyme  
c) Disruption of protein synthesis                         d) Inhibition of nucleic acids and Transcription
4. Which among the following is known as whooping cough?  
a) Tuberculosis                          b) Pertussis  
c) Influenza                                d) Diphtheria
5. Which among the following does not secrete any enzyme for diseases development in plants?  
a) Bacteria                                 b) Fungi  
c) Viruses                                  d) None

**Fill in the blanks:**

6. Robert Koch discovered the cause of \_\_\_\_\_ a disease of animals that can be spread to humans.
7. Botulism is caused by the presence of toxin developed by \_\_\_\_\_.
8. \_\_\_\_\_ portion of penicillin is responsible for its microbicidal activity?
9. Tuberculosis is a disease caused by \_\_\_\_\_.
10. \_\_\_\_\_ is the toxin involved in the “wildfire disease of tobacco”.

**State True or False:**

11. Rober Koch is known as “Father of Bacteriology”.
12. Yoghurt is a fermented milk product produced by bacterial fermentation of milk.
13. An attenuated vaccine is composed of killed microorganisms.
14. Diphtheria is a lower respiratory tract illness caused by *Corynebacterium diphtheriae*.
15. Phaseolotoxin is an example for host specific toxin.

**Match the following:**

- |                        |                                    |
|------------------------|------------------------------------|
| 16. Robert Koch        | - a) <i>Pseudomonas aeruginosa</i> |
| 17. Food poisoning     | - b) <i>Leuconostoc bulgaricus</i> |
| 18. Lactic acid        | - c) <i>Alternaria alternata</i>   |
| 19. Hospital infection | - d) <i>Bacillus anthracis</i>     |
| 20. Ten toxin          | - e) <i>Staphylococci aureus</i>   |

## SECTION – B

**Answer all the questions:**

**5 x 4 = 20**

21. a. Write short notes on contribution of Edward Jenner in Microbiology.

**OR**

- b. How was the spontaneous generation theory disproved?
22. a. What is botulism? How does botulism neurotoxin affect the body?

**OR**

- b. Briefly describe the types of Pasteurization.
23. a. Explain the quick method of vinegar production.

**OR**

- b. Give a brief account of SCP.
24. a. What are the signs, symptoms and preventive measures of diphtheria?

**OR**

- b. Write short notes on causes, symptoms and diagnostic measures of SARS.
25. a. Classify the plant diseases based on the severity and geographical distribution.

**OR**

- b. Describe the biological measures of plant disease control.

## SECTION – C

**Answer any FOUR questions:**

**4 x 15 = 60**

26. What are the methods to preserve the culture of microbes?
27. Give an elaborate account of techniques involved in food preservation.
28. Explain the mechanism of antibiotic action against bacterial cell.
29. Write an essay on causes, transmission, symptoms, diagnostic and preventive measures on AIDS.
30. Discuss the role of enzymes and toxins in diseases development.

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