

APRIL/MAY 2018

MAM-21 — MEDICAL MICROBIOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Describe the various sources of infection of microbial diseases.

Or

(b) Write short notes on the control of infectious diseases.

2. (a) Explain about the collection and processing of infected skin for bacterial pathogens.

Or

(b) Give an account on the method of analysis of sputum sample for Mycobacterium tuberculosis.

3. (a) Describe the pathogenesis and diagnosis of streptococcus pyogenes.

Or

(b) Write a brief account of gas gangrene.

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4. (a) Describe the structure of Herpes virus with diagram.

Or

(b) Explain briefly about synthetic antiviral agents. Add a note on their mode of action.

5. (a) Write briefly about histoplasmosis.

Or

(b) Give an account on pathogenesis of filariasis. Add a note on its control measures.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Define immunity. Describe in detail the innate immunity.

7. Discuss in detail the principle, various types and clinical applications of ELISA technique.

8. Describe the morphology, pathogenesis and laboratory diagnosis of E. Coli.

9. Explain the structure of influenza viruses. Add note of pathogenicity and diagnosis of Influenza virus infection.

10. Write an essay on life cycle and pathogenesis of Ascaris lumbricoides.

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