

APRIL/MAY 2019

MAM21 — MEDICAL MICROBIOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Give a brief account of infection.

Or

- (b) Explain the various types of infectious diseases.

2. (a) Write short notes on transport media.

Or

- (b) Comment on Widal test.

3. (a) Describe the morphology cultural characteristics and pathogenesis of proteus.

Or

- (b) Discuss briefly the pathogenicity of *Shigella*. Add a note on its treatment and prevention.

4. (a) Explain the structure and pathogenesis of poliovirus.

Or

- (b) Write about viral vaccines.

5. (a) Give a brief note on candidiasis.

Or

- (b) Write in brief about concentration methods for ova and cyst.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Explain about innate immunity.

7. Give an account of the agglutination technique.

8. Discuss in detail the pathogenesis and lab diagnosis of Mycobacterium tuberculosis.

9. Explain the structure, pathogenicity and lab diagnosis of Adeno virus.

10. Write an essay on Mycotoxins.

4. (a) Give an account on molecular visualization of protein structure.

Or

- (b) Write a brief note on protein modelling.

5. (a) Write an account on χ^2 test and its applications in biology.

Or

- (b) Find out the coefficient of correlation from the following data.

Age of fish in days (X)

5	10	15	20	25	30	35
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Weight in grams (Y)

3	7	12	15	20	25	30
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SECTION B — ($3 \times 15 = 45$ marks)

Answer any THREE questions.

6. Write an elaborate note on generation of computers.
7. Explain the primary methods of producing pairwise sequence alignment.

8. Enumerate the points of difference between structural and functional genome annotation.
9. Write an essay on the methods available for predicting the protein structure.
10. Give a detailed account on measures of central tendency