

NOVEMBER/DECEMBER 2018

**MAM11 — GENERAL MICROBIOLOGY AND
MICROBIAL PHYSIOLOGY**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL the questions.

1. (a) Comment on Koch's postulates.

Or

- (b) Give an account of numerical taxonomy.

2. (a) Define sterilization. Explain the sterilization by dry heat method.

Or

- (b) Write notes on fluorescence microscopy.

3. (a) Explain the structure of flagella.

Or

- (b) Describe the different methods of measurement of microbial growth.



4. (a) Discuss briefly about the characteristic features of blue green algae.

Or

- (b) Briefly describe the asexual reproduction of fungi.

5. (a) Describe the IUB system of enzyme classification.

Or

- (b) Define phosphorylation. Explain cyclic photophosphorylation.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Give an account on spontaneous generation of life.
7. Write in detail about electron microscope.
8. Explain the mechanism of endospore formation with a neat diagram.
9. Describe the structure and replication of TMV with diagram.
10. Discuss in detail about Entner-Doudoroff pathway.