

APRIL/MAY 2019

**MAM11 — GENERAL MICROBIOLOGY AND
MICROBIAL PHYSIOLOGY**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Write a brief account on controversy over spontaneous generation.

Or

- (b) List out the recent development in medicine.

2. (a) Write a short account on principles and applications of dark field microscopy.

Or

- (b) What are the steps involved in acid-fast staining?

3. (a) Write a short account on nutritional types of micro organisms.

Or

- (b) Discuss about sporulation process in brief.

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4. (a) Comment on Cyanobacteria.

Or

- (b) Describe the life cycle of fungi.

- (a) Write a short note on general properties of enzymes.

Or

- (b) Give an account on TCA cycle.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Explain in detail about modern trends in microbial taxonomy.
7. Discuss about the sterilization methods in detail.
8. Write in detail about the cellular components of bacteria.
9. Write an essay on classification of virus.
10. Write an essay on glycolysis.

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