



APRIL/MAY 2019

**MAM12—FOOD, AGRICULTURE AND  
ENVIRONMENTAL MICROBIOLOGY**

Time : Three hours

Maximum : 75 marks

**SECTION A — (5 × 6 = 30 marks)**

Answer ALL questions.

1. (a) Describe the various methods of drying in food preservation.

Or

- (b) Write short notes on single cell proteins and their uses.

2. (a) Discuss the significance of fermented milk products.

Or

- (b) Brucella – a food borne pathogen – Justify.

3. (a) Give a brief account on the distribution of soil micro-organisms and their role in soil fertility.

Or

- (b) Write short notes on microbial interactions in animals.



4. (a) What is biogeochemical cycle? Write in brief about carbon cycle.

Or

- (b) Write in brief :

(i) the application methods of bio – fertilizers. (3)

(ii) Significance of biofertilizers. (3)

5. (a) Write short notes on global warming.

Or

- (b) Explain in brief about Eutrophication.



SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Discuss the factors influencing microbial growth in foods.
7. Explain the functions of various food control agencies and its regulations.

8. What is Mycorrhizae? Explain the types of mycorrhizae.

9. Explain in detail about the mechanism of biological nitrogen fixation.

10. Describe the various methods of assessment in air quality.