

S.No. 215

12PAM09

(For the candidates admitted from 2012–2013 onwards)

M.Sc. DEGREE EXAMINATION,
NOVEMBER 2017.

Third Semester

Applied Microbiology

SOIL, AGRICULTURE, FOOD AND
ENVIRONMENTAL MICROBIOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Briefly describe the microbes involving in the control of Drying.

Or

- (b) Briefly describe the spoilage of fruits.

2. (a) Write an account on milk.

Or

- (b) Write short notes on Micro flora in Milk.

3. (a) Write notes on uses of mycorrhizae.
Or
(b) Write short notes on commensalism.
4. (a) Give an account of fungal airborne diseases.
Or
(b) Describe the various methods used in the microbiological examinations of potable water.
5. (a) Write an account on secondary treatment of sewage.
Or
(b) Explain the process of saccharification.

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

6. (a) Write a detailed account on spoilage of special kinds of fish and sea foods.
Or
(b) Describe in detail about the principles of food preservation.

7. (a) Write a detailed account on microflora of milk and add a note on the preservation of milk and spoilage of milk and milk products.
Or
(b) Write a detailed account on manufacture of cheese.
8. (a) Describe in detail about the phosphorus cycle.
Or
(b) Describe in detail about Mycorrhizae.
9. (a) Write a detailed account on the types of mycoflora present in air.
Or
(b) Describe in detail about air sanitation.
10. (a) Describe in detail about pesticide and its impact on the environment.
Or
(b) Write a detailed account on the micro organisms involved in bio degradation process in paper mill – effluent.