



RN-003-001525

Seat No. _____

**Third Year B. Sc. (Microbiology) (Sem. V)
(CBCS) Examination**

February - 2019

MB - 501 : Applied Microbiology

Faculty Code : 003

Subject Code : 001525

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) All questions are compulsory.
(2) Draw figure where ever required.
(3) The right side figure indicates the marks of the question.

SECTION-I

- 1 Answer in short : 20**
- (1) What is ammonification process?
 - (2) What is weathering of rocks?
 - (3) Define: Soil water.
 - (4) What is Humus?
 - (5) How pickles are preserved?
 - (6) How food poisoning outbreak can be prevented?
 - (7) Write methods of aseptic handling of food.
 - (8) What are functional foods?
 - (9) What is MBRT?
 - (10) Name any two fermented milk products.
 - (11) What is Sanitary survey?
 - (12) Give two examples of sulphur bacteria.
 - (13) Which are the types Sand filters?
 - (14) Enlist the municipal waste water treatment processes.
 - (15) Name two methods for water purification.
 - (16) Define Bioleaching.
 - (17) What are Droplet nuclei?

- (18) Give example of bacteria responsible for corrosion process.
- (19) What is SCP?
- (20) What is MEOR?

SECTION-II

- 2** (A) Answer in short : (Any **Three** from six) **6**
- (1) Define Methane oxidation.
 - (2) Write role of S.aureus in food poisoning.
 - (3) What is Pasteurization of milk?
 - (4) What is BOD & COD?
 - (5) Define: Bioaugmentation.
 - (6) Give two examples of nitrogen fixing bacteria.
- (B) Answer specifically : (Any **Three** from six) **9**
- (1) Define Antagonism.
 - (2) Explain AGMARK
 - (3) What is starter culture? Which are the conditions of starter culture?
 - (4) Write E.coli as indicator bacteria.
 - (5) Give ecological impact of oil pollution.
 - (6) Write types of pollutant.
- (C) Write short notes on : (Any **Two** from Five) **10**
- (1) Sulphur cycle
 - (2) Food borne infection.
 - (3) Types of microorganisms in milk.
 - (4) Bacteriological analysis of water.
 - (5) Types and sources of pollutants.
- 3** (A) Answer in short : (Any **Three** from six) **6**
- (1) Define : Rhizosphere.
 - (2) What is Spoilage of food?
 - (3) Enlist various types of Cheese.
 - (4) What is Sedimentation process?
 - (5) Define: Biodeterioration.
 - (6) Write microbial flora of fresh food.

- (B) Answer in short : (Any **Three** from six) **9**
- (1) Define: Nitrogenase enzyme.
 - (2) Explain Mushrooms
 - (3) What is Yoghurt ? How it is prepared?
 - (4) What is Activated sludge process?
 - (5) Explain: Biomagnification of DDT
 - (6) Explain Distribution of micro organisms in aquatic environment.
- (C) Write short notes on : (Any **Two** from five) **10**
- (1) Interaction among soil microorganisms
 - (2) Microorganisms as food
 - (3) Preservation of Milk
 - (4) Aquatic environment
 - (5) Bioremediation.
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