



DAJ-003-1014016

Seat No. _____

B. Sc. (Sem. IV) (W.E.F. 2016) (CBCS) Examination

April - 2022

MB-401 : Applied Microbiology

Faculty Code : 003

Subject Code : 1014016

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

[Total Marks : 70

- 1 (a) Answer the following question : 4
- (1) Define soil.
 - (2) What is humas?
 - (3) What is rhizosphere ?
 - (4) Give the example of nitrogen fixing bacteria.
- (b) Answer the following question : (any 1) 2
- (1) Define neuralism with example.
 - (2) What is ammonification.
- (c) Answer the following question : (any 1) 3
- (1) What is proto cooperation.
 - (2) What is nitrification and denitrification.
- (d) Answer the following question : (any 1) 5
- (1) Explain carbon cycle.
 - (2) Explain nitrogen cycle.
- 2 (a) Answer the following question : 4
- (1) What is pasteurization?
 - (2) What is spoilage of food?
 - (3) Define rancidity.
 - (4) Which are fermented foods?
- (b) Answer the following question : (any 1) 2
- (1) What is sauerkraut?
 - (2) What is AGMARK?

- (c) Answer the following question : (any 1) **3**
 (1) What is role of cl.botulism in food poisoning?
 (2) Differentiate infection and intoxication.
- (d) Answer the following question : (any 1) **5**
 (1) Microorganism as food.
 (2) Microbial flora of fresh food.
- 3** (a) Answer the following question : **4**
 (1) What is milk ?
 (2) What is dahi ?
 (3) Give the full name of MBRT.
 (4) Give the name of dairy products.
- (b) Answer the following question : (any 1) **2**
 (1) What is homogenization?
 (2) What is starter culture?
- (c) Answer the following question : (any 1) **3**
 (1) Write a note on kefir.
 (2) Which are basic process involved in cheese production.
- (d) Answer the following question : (any 1) **5**
 (1) Write about preservation of milk.
 (2) What is SCP, explain in detail.
- 4** (a) Answer the following question : **4**
 (1) Define portable water.
 (2) What are flocs ?
 (3) What is water pollution?
 (4) What is BOD and COD?
- (b) Answer the following question : (any 1) **2**
 (1) Define activated sludge.
 (2) What are sand filters?
- (c) Answer the following question : (any 1) **3**
 (1) Solid waste disposal and composting.
 (2) Discuss qualitative water analysis.

- (d) Answer the following question : (any 1) **5**
(1) Discuss microorganisms and waste water treatment.
(2) Membrane filter technique.
- 5** (a) Answer the following question : **4**
(1) What is pollution?
(2) What is detergent?
(3) What is metal corrosion ?
(4) What is pesticide ?
- (b) Answer the following question : (any 1) **2**
(1) Explain biomagnifications.
(2) What is biodeterioration.
- (c) Answer the following question : (any 1) **3**
(1) Write various sources of pollution.
(2) Air sanitations.
- (d) Answer the following question : (any 1) **5**
(1) Write about control of air borne diseases.
(2) Write ecological effects of pesticide pollution.
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