



Shree H.N.Shukla College of Science Rajkot B.Sc. (Sem-IV) (CBCS)

APPLIED MICROBIOLOGY – MB-401

Prelims test Paper-2021

[Time:02:30 Hour]

[Total Marks: 70]

Date: //2021.

Q.1

A. Objective type Questions **4 marks.**

1. Define Rhizosphere.
2. Define soil.
3. What is Leg haemoglobin?
4. Define pore space.

B. Answer in brief (Any 1 out of 2) **2 marks.**

1. Which Factors Affecting Distribution, Activity and Population of Soil Microorganisms.
2. How many type of Interactions among soil microorganisms?

C, Answer in detail (Any 1 out of 2) **3 marks.**

1. Write a note on Winogradsky's Column.
2. Write a note on carbon cycle.

D. Write note on. Any one **5 marks.**

1. Write a note on Sulphur Cycle.
2. Write a note on nitrogen cycle.

Q.2

A. Objective type Questions **4 marks.**

1. What is pasteurization?
2. What are fresh foods and canned foods?
3. Define: putrefaction
4. Define: rancidity

B. Answer in brief (Any 1 out of 2) **2 marks.**

1. Discuss Single Cell Protein (SCP).
2. Intrinsic factors affecting food spoilages.

C. Answer in detail (Any 1 out of 2) **3 marks.**

1. Write a role of radiation in food preservation.
2. Write a brief note on fermented food Pickles.

D. Write note on. Any one **5 marks**

1. Write a role of S. aureus in food borne infection.
2. Write a note on spoilage of foods.

Q.3

A. Objective type Questions **4 marks.**

1. Give composition of normal milk.
2. Name various general flora found in the milk
3. Enlist organisms responsible for spoilage of milk.
4. Name some fermented milk products.

B. Answer in brief (Any 1 out of 2) **2 marks.**

1. Write a note on yoghurt.
2. Discuss milk as food.



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C. Answer in detail (Any 1 out of 2) 3 marks.

1. Sources of spoilage of milk.
2. Write a note on preservation of milk by drying.

D. Write note on. Any one 5 marks

1. Write a note MBRT and Resazurin test.
2. Use and development of starter culture in fermented milk products.

Q. 4

A. Objective type questions 4 marks.

1. Define Sanitary Survey of water.
2. Define coliform.
3. Define BOD.
4. Give the name of filter for water purification.

B. Answer in brief (Any 1 out of 2) 2 marks.

1. Write a note on COD.
2. Write a Biological characteristics of water.

C. Answer in detail (Any 1 out of 2) 3 marks.

1. Write a note on trickling factors.
2. Sanitary survey.

D. Write note on. Any one 5 marks

1. Write a note biological oxidation of waste water.
2. Write a note on composting.

Q. 5

A. Objective type questions 4 marks.

1. What is pollutant?
2. What is CPCB.
3. Define Air pollution.
4. Define bio magnification.

B. Answer in brief (Any 1 out of 2) 2 marks.

1. Define pollution any explain its types.
2. what is biodeterioration? Explain paper biodeterioration.

C. Answer in detail (Any 1 out of 2) 3 marks.

1. Explain bio magnification of pesticides in detail?
2. Explain bio leaching.

D. Write note on. Any one 5 marks

1. Write a note on effect of soil pollution on ecology.
2. Write a note on biofuel.

ALL THE BEST