Important Questions for MZC - III 4 ear.

MICROBIOLOGY - PAPER - IV

UNIT - I Agricultural Microbiology

Essay Type Questions :—

1. Give an account on plant growth promoting microorganisms. (OR 5M)
2. Give an account of Outlines of biological N_2 fixation (Symbiotic, non Symbiotic). OR (5M)
3. Give an account on Biofertilizers.
4. Give an account on Biopesticides. (Or 5M)

Short answer Questions :—

1. Physical and Chemical Properties of soil.
2. Rhizosphere
3. Phyllosphere.
4. Angular leaf spot Cotton.
5. Tomato leaf curl
6. Ground nut rust.
7. Principles of plant disease Control.
8. Concept of disease in plants.

Unit - II. Environmental Microbiology :—

Essay Type Questions

1. Explain in detail about Sewage Treatment (OR (5M))
2. What are the different methods of bacteriological examination of Water ? Explain ?? OR (5M)
3. Explain about microbial interactions (OR 5M)

Short answer Questions:-

1. Microorganisms of air, water, soil.
2. Carbon Cycle
3. Nitrogen cycle
4. Sulphur cycle.
5. Sanitation of potable water.
6. Water Purification methods.
7. Solid waste disposal.
8. Biodegradation of environmental pollutants.

Unit-III FOOD MICROBIOLOGY

Essay Type Questions:- (OR) 5M.

(1) Write an essay on-food Preservation methods??
(2) Give an account on-food borne diseases. (OR) 5M.
(3) Give an account on-food intoxification diseases (OR) 5M

Short answer Questions:-

1. Spoilage of different food materials.
2. Explain about concept of probiotics
3. Biochemical activities of microbes in milk.
4. White button mushrooms.
5. Paddy Straw mushrooms.
6. Bread production.
7. Yogurt Production.
8. Cheese production.
9. Single cell proteins.

Unit - IV INDUSTRIAL MICROBIOLOGY

Essay Type Questions:—

1. Give an account on Screening and Isolation of industrially important organisms (or) (SM)
2. Explain about outlines of Strain improvement
3. Beer production.
4. Citric acid production.

Short answer Questions:—

1. Microorganisms of Industrial importance
2. Batch fermentation.
3. Continuous fermentation.
4. Submerged fermentation.
5. Surface fermentation.
6. Solid state fermentation.
7. Design of Stirred Tank fermenter
8. Biogas.
9. Glutamic acid.
10. Penicillin Production.
11. Ethyl alcohol
12. Amylase Production.
13. Vitamin B_{12} Production.