# D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1 DEPARTMENT OF ZOOLOGY

## **BIOFERTILIZER PRODUCTION(15SZO4A)**

## SECTION-A (UNIT-I)

- 1. Sand
- 2. Silt
- 3. Clay
- 4. Humus
- 5. Loamy soil
- 6. Porosity
- 7. Soil microorganism
- 8. Alluvial soil

#### **SECTION-B**

- 1. Write an essay on different types of soil
- 2. Give an account on physicochemical properties of soil
- 3. Explain different types of microorganisms in soil

# SECTION-A (UNIT-II)

- 1. Azolla
- 2. Cyanobacteria or blue green algae
- 3. Rhizobium
- 4. Symbiosis
- 5. Biofertilizer
- 6. YEMA Medium
- 7. Starter culture
- 8. Azotobacter
- 9. Jensen's medium
- 10. Fogg's medium
- 11. Nostoc

- 12. Seed treatment
- 13. Seedling treatment

### **SECTION-B**

- 1. Explain about mass production of bacterial biofertilizer
- 2. Give an account on mass production and utilization of *Cyanobacterial* biofertilizer
- 3. Write a note on mass cultivation of Azolla and its utilization.

## SECTION-A (UNIT-III)

- 1. Rhizobia
- 2. Bradyrhizobium
- 3. Leghaemoglobin
- 4. Root nodules
- 5. Fabaceae
- 6. Legume crop

### **SECTION-B**

- 1. Describe the symbiotic relationship of nitrogen fixing bacteria with legumes.
- 2. How will you isolate and identify rhizobia from root nodules of leguminous plants.
- 3. What is nitrification and how does it occur?

## **SECTION-A (UNIT-IV)**

- 1. PSB
- 2. VAM
- 3. Vesicular Arbuscular Mycorrhiza

#### **SECTION-B**

- 1. Explain the use of VAM Fungi as biofertilizer.
- 2. Discuss how Phosphate Solubilizing Bacteria plays a role in plant growth promotion.

# SECTION-A (UNIT-V)

- 1. Silty soil
- 2. Fertile soil
- 3. Composite biofertilizers

## **SECTION-B**

- 1. How can we increase the fertility of soil using composite biofertilizer?
- 2. Discuss about the cost benefit analysis of production and application of biofertilizers.