

**B.Sc. CHEMISTRY- FIFTH SEMESTER****Skill Based Elective Course –III****Paper Code: 17UCHS03****Internal assessment Marks: 25****External Marks :75****AGRICULTURAL CHEMISTRY (30 Hours)****UNIT – I FERTILIZERS**

Effect of Nitrogen, potassium and phosphorous on plant growth – commercial method of preparation of urea, triple superphosphate. Complex fertilizers and mixed fertilizers – their manufacture and composition. Secondary nutrients – micronutrients – their function in plants.

**UNIT – II MANURES**

Bulky organic manures – Farm yard manure – handling and storage-oil cakes- blood meal – fish manures.

**UNIT – III PESTICIDES AND INSECTIDES**

**Pesticides** – classification of Insecticides, fungicides, herbicides as organic and inorganic – general methods of application and toxicity. Safety measures when using pesticides.

**Insecticides** : Plant products – Nicotine, pyrethrin – Inorganic pesticides – borates. Organic pesticides – D.D.T. and BHC.

**UNIT – IV FUNGICIDES AND HERBICIDES**

**Fungicide** : Sulphur compounds, Copper compounds, Bordeaux mixture.

**Herbicides** : Acaricides – Rodenticides. Attractants – Repellants. Preservation of seeds.

**UNIT – V SOILS**

Classification and properties of soils –soil water,soil temperature,soil minerals, soil acidity and soil testing.