CBO-4002: MYCORRHIZAE, MUSHROOMS, ETHNOBOTANY AND PLANT GEOGRAPHY

Unit-I Mycorrhizae

- 1. Introduction to Ectomycorrhizae, AM Fungi and orchid mycorrhizae
- 2. Glomeromycota Recent trends in mycorrhizal taxonomy
- 3. Isolation and multiplication of mycorrhizae, role in crop productivity and forestry.
- 4. Phosphate solubilizing fungi (PSF)

Unit-II Mushrooms

- Types of Mushrooms:
 Oyster, white button, paddy straw, Morels, Truffles and poisonous mushrooms.
- 2. Method of cultivation of *Agaricus bisporus*, scope and commercial cultivation and biological significance.
- 3. Medicinal and nutritional value of Edible and Poisonous mushrooms.
- 4. Effect of environmental, nutrient and chemical factors on mushroom formation

Unit-III Ethnobotany

- 1. Ethnobotany and its sub disciplines, Major tribes in India, Comparison of Ethnobotany and Economic botany
- 2. Medico-ethnobotanical surveys and their role in Ayurveda. Following medico-ethno-botanically important plants are to be studies: *Adhatoda, Rauwolifa, Azadirachta, Madhuca*, Turmeric, Pipal, Tulsi, Amla, Baheda, Harde, Arjun sadad, *Diospyros*
- 3. Ethnobotany and its role in domestication and conservation of native plant genetic resources.
- 4. Ethnobotany in context of National priorities and Health care programme.

Unit-IV Plant geography

- 1. Importance of phytogeography
- 2. Continental drift
- 3. Climate and vegetation, discontinuity and endemism
- 4. Vegetation types of India, Forest types of Gujarat
- 5. Land flora of Gujarat