

Exam. Code : 210003

Subject Code : 4807

M.Sc. (Botany) 3<sup>rd</sup> Semester

**APPLIED BOTANY**

**Paper : BOT-C616**

Time Allowed—3 Hours] [Maximum Marks—50

**Note :—** There are total **EIGHT** questions. Each section consists of **TWO** questions. Candidates are required to attempt **FIVE** questions, selecting at least **ONE** question from each Section. The **FIFTH** question may be attempted from any Section.

**SECTION—A**

1. Describe the extraction of sugar from Sugarcane. Give flow diagram of process with critical study of steps involved. 10
2. What are Food adjuncts ? Discuss in brief spices and condiments as flavouring agents. 10

**SECTION—B**

3. Write down the physical and chemical characteristics of Indian woods. Explain in brief *Shorea robusta*. 10

4. What are essential oils ? Give brief account of two essential oil yielding plants of India. 10

### SECTION—C

5. Give classification of Fibres. Mention physical and chemical processes involved in manufacturing of fibres. 10
6. Discuss the following :
- (a) Tanning and dyeing materials.
  - (b) Two Bio fuel producing plants. 10

### SECTION—D

7. Give a detailed account of sources of Gums and Resins and their classification according to their chemical nature. 10
8. Enlist natural dyes of India with their extraction methods. What are merits and limitations of plant based dyes ? 10