



**M-014-003410**

Seat No. \_\_\_\_\_

**M. P. M. (Sem. IV) (CBCS) Examination**

**May / June - 2018**

**BP 406 T : Pharmacognosy - III**

*(Old Course)*

**Faculty Code : 014**

**Subject Code : 003410**

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
- (1) Answer any **three** from each section.
  - (2) Questions **1** and **5** are **compulsory**.
  - (3) Figure to the **right** indicate marks.
  - (4) Draw neat and clean diagram when required.

**SECTION - I**

- 1** Answer any **seven** out of given **ten** questions : **14**
1. Define hydrolysable tannin with example.
  2. Define oleo resin and oleo gum resin with example.
  3. What is isoprene unit ? How many isoprene units present in monoterpenes, sesquiterpenes and diterpenes ?
  4. Write Biological source and family of lemon peel and orange peel.
  5. Discuss any two phytochemical tests for tannins.
  6. Write Biological source and uses of sandal wood.
  7. Write Biological source of Caraway and Cumin.
  8. Write Biological source and uses of Harde.
  9. Justify comment "Dried ginger is more pungent than fresh ginger".
  10. Write biological source and uses of Baheda.
- 2** Answer the following :
1. Define Volatile oils, Write its classification and Isolation methods from crude drugs. **7**
  2. Discuss in detail about B.S., chemical constituents, uses and adulterants of clove. **6**

- 3 Answer the following : 7
1. Write pharmacognostic note on Mentha. 7
  2. Write Biological source, Chemical constituents and Uses of Vidang and Turmaric. 6
- 4 Answer the following : 7
1. Describe the general characters of Umbelliferae family fruits. 7
  2. Give botanical source, family, geographical source, chemical constituents and uses of cardamom. 6

## SECTION - II

- 5 Answer any **two** out of **three** questions : 14
1. Define tannins. Classify tannins with suitable examples and write BS, family Chemical constituents and uses of Amala.
  2. Discuss in detail about cultivation, collection and chemical constituents of cinnamon bark and how can you differentiate it from cassia bark.
  3. Differentiate between :
    - 1) Pale catechu and black catechu.
    - 2) Indian Podophyllum and American Podophyllum.
- 6 Answer the following : 7
1. Give botanical source, family, chemical constituents and uses of European Dill and Indian dill. 7
  2. Write the Biological source, Chemical constituents and uses of Asoka bark and Pterocarpus wood. 6
- 7 Answer the following : 7
1. Give the source, synonyms (if any), chemical constituents and uses of any two (i) Guggulu (ii) Salai Guggulu (iii) Myrrh. 7
  2. Explain in detail about source, family, collection and preparation of Benzoin. 6
- 8 Answer the followings : 7
1. Give the source, synonyms (if any), chemical constituents and uses of any two (i) Vaj (ii) Nutmeg (iii) Garlic. 7
  2. Draw detail transverse section of coriander fruit with proper labels. 6