

# 0807

**21222**

**3 Hours / 80 Marks**

Seat No.

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15 minutes extra for each hour

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- Instructions* – (1) All Questions are *Compulsory*.  
(2) Answer each next main Question on a new page.  
(3) Illustrate your answers with neat sketches wherever necessary.  
(4) Figures to the right indicate full marks.  
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any EIGHT of the following. **16****
- a) Define Pharmacognosy. Give the contribution of Galen.
- b) Write the biological source of following drugs
- i) Digitalis
- ii) Ajowan
- c) Give the synonyms of following drugs.
- i) Vinca
- ii) Vasaka
- iii) Liquorice
- iv) Neem
- d) Give the difference between Organised and Unorganised drugs.
- e) Draw the well labelled diagram, showing morphology of Fennel fruit.

P.T.O.

- f) Which part of the plant is used as drug in case of
- i) Ispaghula
  - ii) Gokhru
  - iii) Colchicum
  - iv) Nutmeg
- g) Give two examples of drug from following family.
- i) Solanaceae
  - ii) Leguminoceae
- h) Define enzymes ? Give its example.
- i) Describe the method of preparation of silk fibre.
- j) Give the function of trichome and name the drug containing unicellular trichomes.
- k) Define Antitussive with examples.
- l) Give the method and significance of "Modified Borntrager test".

**2. Attempt any THREE of the following. 12**

- a) Explain pharmacological method of classification of crude drugs with merits and demerits.
- b) Draw the well labelled diagram of T.S. of Datura and describe its microscopy.
- c) Give uses and chemical constituents of : (any two)
  - i) Chaulmoogra oil
  - ii) Rauwolfia
  - iii) Garlic
  - iv) Honey
- d) Describe any four physical methods of evaluation of crude drugs.
- e) Write the meaning of Umbelliferous fruit ? Describe morphological characters of any one Umbelliferous fruit with diagram.

**3. Attempt any THREE of the following. 12**

- a) Explain Ayurvedic system of medicine.
- b) Give the uses and chemical constituents of following: (any two)
  - i) Nux-vomica
  - ii) Tobacco
  - iii) Senna
  - iv) Papaya
- c) Explain the following chemical tests.
  - i) Keller-Killiani test
  - ii) Vitalis-Morine test
- d) Define Diuretics. Give Biological source, uses and chemical constituents of any one drug.
- e) Define volatile oil. Explain in brief various methods used for isolation of volatile oil.

**4. Attempt any THREE of the following. 12**

- a) Define perfumes and flavouring agents. Give biological source and chemical constituents of any one -
  - i) Lemon grass oil
  - ii) Peppermint oil
- b) Describe method of collection and preparation of Digitalis or Senna for market.
- c) Define Tannins. Write the general chemical test for tannins.
- d) Give the biological source, chemical constituents and uses of Ephedra.
- e) Define Sutures and Ligatures. Write ideal requirements of sutures.

**5. Attempt any THREE of the following. 12**

- a) Define and classify Alkaloids with examples of crude drugs.
- b) Define with example
  - i) Laxatives
  - ii) Carminative
  - iii) Anti-tumour
  - iv) Anti - tussive
- c) Define adulteration. Give the various methods of adulteration with suitable example.
- d) Define Antirheumatics ? Write biological source, uses and chemical constituents of any one Antirheumatic drugs.
- e) Describe the life cycle of Ergot with labelled diagram.

**6. Write chemical tests of following crude drugs. (any FOUR) 16**

- a) Wool
  - b) Acacia
  - c) Asafoetida
  - d) Shark Liver oil
  - e) Agar
  - f) Turmeric
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