



807

14115

3 Hours/80 Marks

Seat No.

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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.

MARKS

1. Attempt **any ten** of the following :

20

- a) Define the term 'Antiseptics' and 'Disinfectants'.
- b) Define the term cardiotonics. Give the biological source with family of any one cardiotoxic drug.
- c) Which part of the plant is used as a drug in case of
 - i) Ergot
 - ii) Rauwolfia
 - iii) Black catechu
 - iv) Indian bdellium
- d) Mention synonym of following crude drug
 - i) Bees wax
 - ii) Ephedra
 - iii) Datura
 - iv) Turmeric

P.T.O.



- e) Mention two examples of drug for which each of the following part are used
- Dried Juice
 - Dried aqueous extract
- f) Write minimum four characteristic features of umbelliferous fruits.
- g) Write four differentiating points between organised and unorganised crude drug.
- h) Name the drug which contain following active chemical constituents :
- Lysergic acid
 - Asaresinolannol
 - Brucine
 - Reserpine
- i) Name any one drug which belongs to following family.
- Rutaceae
 - Burseraceae
 - Apidae
 - Lauraceae
- j) Which chemical substances is responsible for pungent taste of
- Ginger
 - Ajowan
- k) Describe contribution of following persons in development of Pharmacognosy
- Hippocrates
 - Galen
- l) Write two chemical tests for identification of Nux-vomica



MARKS

2. Attempt **any three** of the following :

12

- a) Explain the life cycle of Ergot with diagram.
- b) Describe the method of preparation of cotton fibres.
- c) Name the drug which is used as antimalarial. Write biological source with family and chemical constituents of it.
- d) Define adulteration and substitution. Write the adulterants of
 - i) Clove
 - ii) Digitalis

3. Attempt **any three** of the following :

12

- a) Define 'Resin'. Give the name, synonyms and biological source of drug which contain Δ ' THC in it.
- b) Give minimum two differentiating chemical tests in between
 - i) Sumatra benzoin and Siam benzoin
 - ii) Black catechu and Pale catechu.
- c) Explain different means of adulteration of crude drug with suitable examples.
- d) Draw a well labelled diagram of T.S. of 'clove' along with its microscopy by giving four points.

4. Attempt **any three** of the following :

12

- a) Explain in detail the scope of pharmacognosy
- b) What are Alkaloids ? Explain how the alkaloids are extracted from plant.
- c) What do you mean by 'Swelling Factor' ? Describe how will you determine it ? According to I.P. What should be the swelling factor for Isapgol ?
- d) Write the biological source with family, chemical constituents and uses of 'Opium'.

**MARKS**

5. Attempt **any three** of the following : **12**
- a) Write minimum eight differentiating points between volatile oil and fixed oil.
 - b) Write biological source with family of Rauwolfia. Describe method of collection and preparation of Rauwolfia for market.
 - c) Define the term diuretics and carminatives with two examples from each category.
 - d) Write in detail methods of isolation of volatile oils.
6. Explain chemical tests of following crude drugs. (**any four**) : **12**
- i) Starch
 - ii) Shark liver oil
 - iii) Turmeric
 - iv) Datura
 - v) Acacia
 - vi) Digitalis
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