



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) Assume suitable data, if necessary.
- (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

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1. Attempt any EIGHT of the following:

- a) Define Pharmacognosy. Who and when coined the word pharmacognosy.
- b) Explain role of Galen in the history of pharmacognosy.
- c) Which part of the plant is used as crude drug in case of following:
 - i) Pyrethrum
 - ii) Ephedra
 - iii) Gymnema
 - iv) Ajowan
- d) Differentiate between leaf and leaflet.
- e) Name two crude drugs having following family:
 - i) Apocynaceae
 - ii) Zingiberaceae
- f) Explain 'Gold Beater Skin test' for tannins.
- g) Name the crude drug which contains following chemical constituents.
 - i) D-linalool
 - ii) Fenchone
 - iii) Vitamin A
 - iv) Reserpine
- h) Define :
 - i) Antiseptics
 - ii) Disinfectants
- i) Name the crude drug which is used as :
 - i) Carminative
 - ii) Antitussive
 - iii) Laxative
 - iv) Antileprotic
- j) Write Morphological characters of coriander with diagram.

2. Attempt any FOUR of the following:

- a) Define Evaluation of crude drugs. Describe any two physical methods of drug evaluation.
- b) Describe chemical method of classification with its merits and demerits.
- c) Name the crude drug which is used as antimalarial. Write its Biological source and chemical constituents.
- d) Define surgical dressings. Give the ideal requirements of surgical dressings.
- e) Write Biological source, chemical constituents and uses of Nutmeg.
- f) Define volatile oil. Explain methods of isolation of volatile oil.

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3. Attempt any FOUR of the following:

- a) Define Diuretics. Give biological source chemical constituents of Gokhru.
- b) Describe method of cultivation, collection and preparation of Rauwolfia for market.
- c) Define following with examples.
 - i) Dried juices
 - ii) Latex
 - iii) Balsam
- d) Define adulteration. Give various methods of adulteration with suitable examples.
- e) Write Biological source and uses of following
 - i) Garlic
 - ii) Black pepper
- f) Explain life cycle of Ergot.

4. Attempt any FOUR of the following:

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- a) Define following with one example of each :
 - i) Astringents
 - ii) Antirheumatics
- b) Name the crude drug which contain cardiac glycoside. Explain chemical test for it.
- c) Define and classify pharmaceutical aids with examples.
- d) Give Biological source, chemical constituents and uses of vinca.
- e) Define Tannins. Differentiate between hydrolysed tannin and condensed tannin.
- f) Give Biological source of following:
 - i) Digitalis
 - ii) Sandal wood
 - iii) Aconite

5. Attempt any FOUR of the following:

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- a) Describe method of preparation for cotton fibre.
- b) Define following : (any 3)
 - i) Stomatal No.
 - ii) Stomatal index
 - iii) Veinislet No.
 - iv) Vein termination No.
- c) Draw a well labelled diagram of T.S. of Fennel OR Ginger and describe it.
- d) Give chemical constituents and uses of following:
 - i) Chaulmoogra oil
 - ii) Vasaka
- e) Define and classify Resins and Resin-combination with examples.
- f) Name antidyseentric drug. Give its biological source and chemical constituents.

6. Explain chemical tests of following drugs. (any FOUR)

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- a) Datura
- b) Shark liver oil
- c) Nux vomica
- d) Gelatin
- e) Asafoetida
- f) Turmeric