

0807

12223

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 answer 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. Write contribution of seydlar in development of Pharmacognosy.
- b) Define. Tannins. Write gold bitter's skin test for Tannins.
- c) Define with example :-
- i) Carminative
- ii) Diuretics.
- d) Define crude drugs. Give two examples of crude drugs from mineral source.
- e) Mention four characters of Umbelliferous fruits.
- f) Which part of plant is used as a drug in case of :-
- i) Ergot
- ii) Nutmeg
- iii) Cinchona
- iv) Liquorice

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- g) Enlist the Indian traditional system of medicine.
- h) Define pharmaceutical aid with two examples.
- i) Mention synonyms of :-
 - i) Vinca
 - ii) Vasaka
 - iii) Aconite
 - iv) Black pepper.
- j) Name the drugs which contain –
 - i) Colchicine
 - ii) Emetin
 - iii) Vitamin C
 - iv) Pentosan.
- k) What are Balsam. Give two examples.
- l) Write any two uses of following crude drugs –
 - i) Gokhru
 - ii) Castor oil

2. Attempt any FOUR of the following:

12

- a) Give Morphological classification of natural drugs with merits and demerits.
- b) Explain Borntrager's test. Give the chemical constituents of Senna leaf.
- c) Give two examples each of crude drugs from following family–
 - i) Apocynaceae
 - ii) Liliaceae
 - iii) Euphorbiaceae
- d) Which Umbelliferous fruit contains a chemical compound D-Linalool. Write its morphological characters with diagram.
- e) What are glycosides. Explain how glycosides are isolated from plant.
- f) Write the biological source and chemical constituents of digitalis.

3. Attempt any FOUR of the following:**12**

- a) Define Alkaloids. Write the chemical test for identification of Alkaloids by precipitation method.
- b) Name the drug used as Antihypertensive give its biological source and chemical constituents.
- c) Distinguishing between of Volatile oil and Fixed oil.
- d) Give biological source and uses of –
 - i) Lemon oil
 - ii) Yeast
- e) Define Diuretics. Write biological source and chemical constituents of Punernava.
- f) Explain significance of following in evaluation of crude drugs–
 - i) Moisture content
 - ii) Melting point.

4. Attempt any FOUR of the following:**12**

- a) Define resins. Give classification of resin combination with examples.
- b) Name the drug passes following chemical test and explain it (any two) –
 - i) Vitali-Marin test
 - ii) Gambier fluorescin test
 - iii) Swelling factor test.
- c) Draw a well labelled diagram of T.S. of Datura.
- d) Explain life cycle of Ergot.
- e) Give biological source of cotton. Explain method of preparation of same for market.
- f) Define evaluation of crude drugs. Enlist various methods of microscopical evaluation and explain any one method.

- 5. Attempt any FOUR of the following:** **12**
- a) Differentiate between condensed tannins and hydrolysable tannins.
 - b) Define Antirheumatics. Give chemical constituents and biological source of Guggul or Colchicum.
 - c) Write the methods of collection of bark.
 - d) Differentiate between Organised drugs and Unorganised drugs.
 - e) Define antiseptic. Give biological source and chemical constituents of benzoin.
 - f) Define sutures and ligatures. Write ideal requirements of sutures.
- 6. Explain any FOUR chemical tests for following drugs:** **16**
- a) Agar
 - b) Myrrh
 - c) Digitalis
 - d) Turmeric
 - e) Silk
 - f) Sharkliver oil.
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