

Q.P. Code :32292

[Time: 3 Hours]

[Marks:70]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Illustrate answer with sketches and structures wherever required.
 3. Answer to sub-questions must be written together.

- Q.1
- a) Correct the statements if required and justify all the statements with significant reasons or 07 examples.
 - i) Isapghol is an organized drug.
 - ii) Gums are collected in rainy season.
 - iii) Aleurone grains are reserves found in leaves.
 - iv) Anthraquinones are synthesized via polyketides pathway.
 - v) Maceration involves continuous boiling of drug in solvent.
 - vi) Veinlets are made up of xylem vessels.
 - vii) Absorbent cotton is regenerated fibre.
 - b) Answer the following: 08
 - i) Give morphological & microscopic differences between allied species of cinnamon.
 - ii) Give the examples of volatile oil based drugs with structures of relevant phytoconstituents and applications.
 - iii) Write source, preparation and applications of chitin based products.
 - iv) Give source, preparation and uses of thyroid hormones.
- Q.2
- i) Give sources of DONO with two examples of each source. 03
 - ii) Based on morphology and histology differentiate between barks and woods. Give suitable examples. 04
 - iii) Write a detailed note on any one mucilage obtained from marine source. 04
- Q.3
- i) Explain countercurrent extraction with suitable examples. 03
 - ii) Write a note on: biological method of evaluation of crude drugs. 04
 - iii) Differentiate between fibres obtained from animal source. 04
- Q.4
- i) Write a note on chemotaxonomical method of classification of DONO. 03
 - ii) With the help of suitable examples, explain the importance of drying and storage of crude drugs. 04
 - iii) Write general method of extraction for alkaloids and tannins. Explain the principle involved therein. 04
- Q.5
- i) Write source, chemical constituents and commercial utility of inulin and TKP. 03
 - ii) Write biosynthetic pathway with structures for sesquiterpenoids. 04
 - iii) With respect to WHO guidelines, explain the relevance of any two physical tests for quality control of DONO. 04

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- Q.6
- i) Write source, composition and applications of plant lectins. 03
 - ii) With the help of suitable diagrams and examples, write about different types of inflorescence. 04
 - iii) Explain endogenous factors affecting quality of crude drugs. 04
