

2016-2017 - KE-Exam

SEM V &amp; KE-Exam

CBGS

Pharmacology-I

Second Half-2016

QP Code : 500400

(3 Hours)

[ Total Marks : 70 ]

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

1. (a) Correct the statements if required and justify all the statements with significant reasons or examples. 7

- Drugs included in 'Ayurvedic pharmacopoeia' are categorised as official drugs.
- Indole acetic acid is an example of plant growth inhibitor.
- Centripetal type of arrangement is seen in cymose inflorescence.
- Stolons are examples of unground stem modification.
- Alkaloids can be synthesized by Shikimic Acid Pathway.
- Dien stark assembly follows the principle of continuous hot percolation.
- Chitins are an example of galactomannns.

1. (b) Answer the following :- 8

- Give two examples of phytoconstituents belonging to 'volatile oil' with structures and its therapeutic application.
- Give marketed formulations containing serratiopeptidase and their applications.
- Give the source, commercial utility and significance of 'glass wool' in pharmaceutical industry.
- Define adulteration of crude drugs with two suitable examples.

2. (i) Give examples with sources of drugs of natural origin obtained from animals and from plant tissue culture. 3

(ii) Classify seeds and discuss the morphology and histology of seeds. 4

(iii) Write a detail note on 'Isapghol'. 4

3. (i) Discuss maceration and percolation method of extraction with suitable examples. 3

(ii) Discuss the physical methods of evaluation of crude drugs with respect to Pharmacopoeia. 4

(iii) Write a note on 'protein fibers'. 4

4. (i) Define dried latex, dried juices and dried extracts with suitable examples. 3

(ii) Give examples stating the importance of collection of crude drugs in order to obtain optimum concentration of phytoconstituents. 4

(iii) Write note on supercritical fluid extraction. 4

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5. (i) Discuss quantitative microscopical method of evaluation of crude drugs. 3  
(ii) Discuss the morphology and microscopy of Bark with diagrams. 4  
(iii) Give the source, preparation and commercial utility of following :- 4  
(a) Honey (b) Inulin
6. (i) Discuss the endogenous factors affecting quality of crude drugs. 3  
(ii) Enumerate the biosynthetic pathway for the production of sesquiterpens. 4  
(iii) Write a note on gelatin. 4
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