

KNT/KW/16/6544

B.Pharm. Semester—I (C.B.S.) Examination
PHARMACOGNOSY AND PHYTOCHEMISTRY—I
Paper—5 (1T5)

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) Question No. 1 is compulsory.

(2) Attempt any **FOUR** questions from remaining

(3) Draw neat labelled diagram wherever necessary.

1. Answer the following questions (Any **FIVE**) :— 5×4=20
 - (a) Define Pharmacognosy. Write about contribution of Charak and Galen in Pharmacognosy.
 - (b) What are woods ? Give any 3 points of difference between heartwood and sapwood.
 - (c) Give any four identification tests for alkaloids.
 - (d) Define stomata. Explain in short different types of stomata.
 - (e) Write a note on Aromatherapy.
 - (f) Define and classify tannins with suitable examples.
 - (g) Differentiate between organised and unorganised crude drug.
2. (a) What are secondary plant metabolites ? Explain shikimic acid pathway for formation of different secondary metabolites. 10
 - (b) Define and classify proteins with suitable examples. 5
3. Describe different system of classification of crude drugs with their advantages and disadvantages. 15
4. (a) What are Primary Metabolites ? Write about classification and properties of carbohydrates. 8
 - (b) Explain Endogenous factors affecting quality and purity of crude drugs. 7

5. (a) Define adulteration. Explain different methods of adulteration with examples. 8
(b) Describe different types of vascular bundles with examples. 7
6. (a) What are the steps involved in preparation of crude drug for market ? 8
(b) Explain in detail Ayurveda and Homeopathy System of Medicine. 7
7. Write short notes on (Any **THREE**) :—
- (a) Shapes and fractures of Bark
(b) History and scope of pharmacognosy
(c) Trichomes
(d) Glycosides
(e) Flowers. 3×5=15