

PHARMACOGNOSY AND PHYTOCHEMISTRY—I
Paper—5

Time : Three Hours]

[Maximum Marks : 80

- N.B. :—** (1) Question No. 1 is compulsory.
 (2) Attempt any **four** questions out of remaining.
 (3) Draw neat labelled diagram wherever necessary.

1. Solve any **five** :
 - (a) Give general morphological and histological characters of leaf.
 - (b) Write a note on Aroma therapy.
 - (c) What are woods ? Write any three points of difference between heartwood and sapwood.
 - (d) Add a note on Fruits.
 - (e) Give any four identification tests for alkaloids.
 - (f) Write a note on epidermal trichomes.
 - (g) Give differentiate between organised and unorganised crude drug. 5×4=20
2. (a) Enlist the secondary metabolites formed in Shikimic Acid pathway. Describe Shikimic Acid pathway in detail. 8
 (b) Define and classify proteins with examples. Give general identification tests to identify proteins. 7
3. (A) Explain in detail Ayurved a system of medicine. 8
 (B) Define adulteration. Explain different methods of adulteration with examples. 7
4. Describe different systems of classification of Crude drug with their advantages and disadvantages. 15
5. Give an elaborative account on endogenous and exogenous factors affecting quality and purity of crude drugs. 15
6. (A) Give in detail steps involved in preparation of Crude drug for market. 8
 (B) Define stomata. Explain different types of stomata with examples. 7
7. Write short notes on (any **three**) :
 - (a) Homeopathic system of Medicine
 - (b) Xylem and Phloem
 - (c) Bark
 - (d) History and scope of Pharmacognosy
 - (e) Tannins. 5×3=15