NKT/KS/17/6544

B.Pharm. Semester—I (C.B.S.) Examination PHARMACOGNOSYAND PHYTOCHEMISTRY-I

Paper—5

Time: Three Hours] [Maximum Marks: 80

Note :—(1) Question No. **1** is compulsory.

- (2) Solve any four questions from the remaining.
- (3) Draw neat labelled diagrams wherever necessary.
- (4) Discuss the reaction, mechanism wherever necessary.
- 1. Answer the following questions (any **five**):
 - (a) Differentiate between Primary and Secondary metabolite.
 - (b) Define and classify carbohydrates with suitable examples of each class.
 - (c) Write a note on Epidermal trichomes.
 - (d) Give the various chemical tests for detection of Alkaloids.
 - (e) Give the general morphological and histological characters of Leaf.
 - (f) Describe Unani System of medicine.
 - (g) Define and classifly proteins. Give the various chemical tests for detection of proteins.

 $5 \times 4 = 20$

- Define Pharmacognosy. Explain various systems of classification of crude drugs with their advantages and disadvantages.
- 3. (a) Enlist the various alternative and complementary systems of medicine. Describe in detail about Ayurvedic System of medicine.
 - (b) Define adulteration. Describe different methods of adulteration.
- 4. Describe in detail various Exogenous factors affecting the quality and purity of crude drugs.

5. (a) Write in detail about the contribution of various scientists in the development of pharmacognosy.

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(b) Describe different types of stomata.

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- (a) Describe and name the different secondary metabolites that are formed through shikimic acid 6. 8 pathways.
 - (b) Write about the different steps involved in preparation of crude drugs.
- 7. (a) Write short notes on any two of the following:

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(iii) Fruits
(iv) Chinese system of medicine.

(b) Explain formation of different primary metabolites through photosynthesis.

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