

NRT/KS/19/3183

B.Pharm. Semester–VII (C.B.S.) Examination

PHARMACOGNOSY AND PHYTOCHEMISTRY–V (PHYTOPHARMACEUTICAL/HERBAL TECHNOLOGY)

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) All questions carry marks as indicated.

(4) Draw neat labelled diagram wherever necessary.

1. Attempt any **five** :

(a) Define alkaloids and classify them.

(b) Write any one screening method for antidiabetic herbal drugs.

(c) Define herbal drug interactions of Ginseng and Garlic.

(d) Define patents and describe the benefits of patents.

(e) Write a note on validation of herbal products.

(f) Write the method for the extraction of quinine.

(g) Write biological source, chemical constituents and uses of cinchona. 20

2. Write an essay on the standardisation of herbal drugs as per WHO guidelines. 15

3. (a) Write the complete life cycle of Ergot. 8

(b) Give the biosynthetic pathway of Tropane alkaloids. 7

4. Give the complete account of role of medicinal and aromatic plants in national economy. 15

5. (a) Write a note on opium. 7

(b) Write the protocol for evaluation of hepatoprotective herbal drugs. 8

6. Write an informative note on importance of natural products in new drug development. 15

7. Write short notes on any **three** :

(a) Soyabean

(b) Green Tea

(c) Garlic

(d) Antioxidant herbal drugs

(e) Datura. 15