

B. Pharm Seventh Semester (CBS) Examination
PHARMACOGNOSY AND PHYTOCHEMISTRY-V
(Phytopharmaceutical/Herbal Technology)

Paper-5

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) Q. No. 1 is compulsory.

(2) Attempt any **four** questions from remaining.

(3) Draw neat labeled diagrams wherever necessary.

1. Solve any **five** of the following :
 - (a) Define and classify alkaloids with examples.
 - (b) Write a note on Global market for herbal products and opportunities in India.
 - (c) Write a note on Ergot.
 - (d) Write in short importance of standardization & problems involved in it.
 - (e) Write a note on *Parriflora incarnata*.
 - (f) Write biological source chemical constituents and uses of *Raman Chamomile*.
 - (g) Write a note on *Rauwolfia*. 5×4=20
2. State the role of medicinal & aromatic plants in national economy along with the importance of natural products for drug development. 15
3. (a) What is herbal drug interaction ? Mention its classification. State the interaction of *Ginkgo biloba* and ginger. 8
 - (b) Define Flavonoids. Give classification chemistry and extraction of Flavonoids. 7
4. (a) Outline the biosynthesis of Tropane alkaloid. 8
 - (b) Give the Pharmacognostic account of *Cinchona Bark*. 7
5. (a) Explain any one method for Antidiabetic & Antioxidant screening of herbal drug formulations. 10
 - (b) Give complete pharmacognostic account of *Liquorice*. 5
6. (a) Give the procedure for extraction, Isolation and estimation *Atropine*. 8
 - (b) Write a note on WHO guidelines for quality standardised herbal drugs and formulation. 7
7. Write short notes on (any **three**) :
 - (a) Patenting of Herbal drugs
 - (b) Steroidal alkaloids
 - (c) Validation of herbal products.
 - (d) Biosynthesis of Indole alkaloids.
 - (e) Green Tea. 5×3=15