

B. Pharm. 4th year, 1st semester, supplementary examination 2017

Subject: Pharmacognosy II

Time: 3 hours

Total marks: 100

Group A

(Answer any five questions taking at least two from each group)

1. Define and classify alkaloids with suitable example. Explain schematically the method of extraction of alkaloids from crude extract. Describe the microscopic features of cinchona bark with labeled sketch.

$$(2 + 6) + 8 + 4 = 20$$

2. Write down the biological sources, chemical constituents and uses of cinchona, ephedra and opium. Discuss the life cycle of ergot with suitable diagram.

$$(1.5 + 1.5 + 1) \times 3 + 8 = 20$$

3. Write notes on

- a. Purine alkaloids
- b. Chemical tests of alkaloids
- c. Herbs as health food.

$$7 + 3 + 10 = 20$$

4. Define and classify chromatography with suitable explanation. Discuss the principle of separation in ion exchange chromatography. Write down the chemical tests for nux-vomica and rauwolfia alkaloids.

$$(2 + 4) + 10 + 4 = 20$$

B. PHARMACY 4TH SEM SUPPLEMENTARY EXAM -2017

PHARMACOGNOSY –II Time: Three hours Full Marks: 100

Group B

Answer any five questions taking at least two from each group

5. Define and classify glycoside with example. Discuss in details about Digitalis. 20
6. Write in details about Thin layer chromatographic characterization of medicinal plant extract. 20
7. Write short notes on : 20
 - i) Bufadienolide group of glycoside
 - ii) Crude drug acting on Central Nervous System
 - iii) Cyanogenetic group of glycoside
 - iv) Pharmacological evaluation of crude drugs