Subject : Pharmacognosy - II

Time : 3 Hours Max. Marks: 70

Note: Answer All questions. All questions carry equal marks.

1.(a) Describe the microscopical characters of (6)
(i) Rauwolfia (ii) Nuxvomica

(b) Give the chemical constituents and uses of (8)
(A) Vinca (B) Ephedra (C) Cinchona

OR

(c) Define and classify alkaloids with examples. (5)

(d) Write the sources, chemistry and therapeutic properties of opium and tobaco. (9)

2.(a) Write the Biological source, chemistry and therapeutic uses of Digitalis and ashwagandha. (10)

(b) Describe the microscopy of Senna. (4)

OR

(c) Define and classify glycosides with examples. (6)

(d) Give the sources, chemistry and mechanism action of any two drugs containing glycosides. (8)

3.(a) Write the sources, chemistry and uses of (9)
(i) Cinnamon (ii) Turmeric (iii) Asafoetida

(b) Define and classify Resin with examples. (5)

OR

(c) Describe the isolation and estimation of quinine from cinchona. (6)

(d) Discuss the chemistry and therapeutic properties of podophyllum and pyrethrum. (8)

4.(a) Discuss the industrial application of plant tissue culture technique. (6)

(b) Classify the culture technique. Explain the process of immobilization technique with application. (8)

OR

(c) Explain the process of orgonogenesis. (6)

(d) Surface sterilization techniques. (4)

(e) Macro supplements used in culture media. (4)

5.(a) Write note on quality control of raw materials. (7)

(b) Give preparation of Aswas and Ghritans. (7)

OR

(c) Discuss the traditional systems of medicines practised in India and give their significance. (7)

(d) Give an informative note on discovery of new drugs from natural sources. (7)

.

****