

Roll No.....

PY-604**B.Pharmacy VI Semester**

Examination, June 2016

Pharmacognosy - IV**Time : Three Hours****Maximum Marks : 70**

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 ii) All parts of each question are to be attempted at one place.
 iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
 iv) Except numericals, Derivation, Design and Drawing etc.

1. a) What is adsorption chromatography.
 b) Define partition coefficient chromatography.
 c) Classify different chromatographic techniques.
 d) Discuss the role of TLC and HPLC in herbal drug analysis.

OR

Give an account of HPTLC techniques and discuss in detail about evaluation of Herbal drugs by HPTLC techniques.

2. a) Define plant tissue culture technique.
 b) Give the significance of plant tissue culture.
 c) Write a exhaustive note on nutritional requirement for plant tissue culture.
 d) Discuss the callus culture and suspension culture in detail.

OR

Write the application of plant tissue culture in development of phytoconstituents.

3. a) Define prebiotic and probiotic.
 b) Write the name cardiovascular agents obtained from marine sources.
 c) Discuss in brief about cosmeceuticals.
 d) Discuss in detail about herbs as a health food.

OR

Discuss in detail about antimicrobial, antibiotic and marine toxins obtained from marine sources.

4. a) Write the biological sources and chemical constituents of clove oil.
 b) Write the biological sources and chemical constituents of mentha oil.
 c) Write about the isolation procedure for the Eucalyptus oil with its utilization.
 d) Enumerate different method used for the distillation of aromatic oils and give detail account of any one of them.

OR

Discuss isolation and uses of lemongrass oil and sandal wood oil.

5. a) Write the biological sources of ephedrine and strychnine.
 b) Write the biological sources of podophyllotoxin and Papain.
 c) Write a note on industrial production of atropine.
 d) Discuss in detail about industrial production, analysis and pharmaceutical importances of Quinine.

OR

Discuss in detail about industrial production, analysis and pharmaceutical importance of vincristine.
