PY-604

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Total No. of Questions :5]

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B.Pharmacy VI Semester

Examination, December 2016

Pharmacognosy - IV

Time: Three Hours

Maximum Marks: 70

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- 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) Write a note on surface sterilization.
 - b) Write a note on suspension culture.
 - c) Discuss historical development of plant tissue culture.
 - d) Discuss different type of plant tissue culture.

OR

Write the application of plant tissue culture in production of secondary metabolite with suitable examples.

- 2. a) Classify chromatographic techniques.
 - b) What is column chromatography?
 - c) Discuss paper chromatography in detail.
 - d) Discuss the role of finger printing technique in evaluation of herbal drugs.

OR

Give an account of HPLC technique and discuss it's application in evaluation of herbal drugs.

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- a) Write the name of anti microbial agent obtained from marine source.
 - Write the name of anti inflammatory agent obtained from marine source.
 - c) Define Cosmeceuticals.
 - d) What marine pharmacognosy? Discuss role of marine herbs as there peutics agent.

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OR

Discuss in detail about herbs as a health food.

- a) Write the biological source and uses of lemongrass oil.
 - b) Write the biological sources and uses of sandal wood oil.
 - c) Write the isolation procedure for mentha oil.
 - d) What are volatile oil? Explain the general method of isolation of volatile oil.

OR

Discuss isolation and uses of Eucalyptus oil and clove oil.

- a) Write the biological sources of atropine and papain.
 - b) Write the biological sources of quinine and vincristine.
 - Write a note on industrial production of quinine.
 - Discuss in detail about industrial production, analysis and pharmaceutical importance of morphine.

OR

Discuss in detail spectral analysis of herbal drugs.

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