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Roll No.....

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

Examination, June 2017

Pharmacognosy - IV**Time : Three Hours****Maximum Marks : 70****Note:** Attempt any five questions. All questions carry equal marks.

1. What is Densitometry? Describe in details the applications of HPTLC for evaluation of herbal drugs.
2. Discuss in detail the importance of various detectors in HPLC with reference to the herbal drug evaluation.
3. Describe in detail the factors affecting growth and maintenance of plant tissue culture.
4. Describe the biological sources, identification tests and pharmaceutical importance of the following:
 - a) Morphine
 - b) Vincristine
 - c) Ephedrine
 - d) Atropine

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5. Give the biological source, preparation, identification tests and uses of the following:
 - a) Papain
 - b) Sandal wood oil
 - c) Lemon grass oil
 - d) Tannic acid
6. Discuss in detail industrial importance of marine pharmacognosy with special reference to cardiovascular active agents.
7. Give an exhaustive note on herbs as health and functional food.
8. Write notes on any two of following:
 - a) Adaptogens and their applications
 - b) Applications of micro propagation of phytoconstituents.
 - c) Natural dyes and their industrial importance.

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