

PY-604
B.Pharm. VI Semester
Examination, June 2014
Pharmacognosy - IV

Time : Three Hours

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Maximum Marks : 70

[2]

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.
iii) Draw neat and Labelled diagram wherever necessary.

1. a) Review the marine organism as a source antibiotics. 7
b) Explain in detail historical development of plant tissue culture. 7
2. Define Herb. Explain classification of Herbs as health food? Describe any one herb as health food. 14
3. Explain in detail cultivation and utilization of aromatic plant lemon grass oil and sandalwood oil. 14
4. Write short note on any two of the following : 14
 - i) Cytotoxic
 - ii) Sterilization of explants
 - iii) Application of chromatography

5. Write down in detail industrial production and analysis of Morphine and Papain. 14
6. Write brief description and application of paper chromatography and column chromatography. 14
7. a) Explain different types of cultures and nutritional requirements for plant tissue culture. 7
b) Explain the role of NMR and mass spectroscopy for analysis of herbal drugs. 7

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8. Write short note on any two of the following : 14
 - i) Natural dyes
 - ii) Immunomodulators and adaptogens
 - iii) Podophyllotoxins
