

APRIL 2004

[KK 311]

Sub. Code : 1031

(For candidates admitted from the year 2001–2002
onwards)

M.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

First Year

Branch VIII — Phytopharmacy and Phytomedicine

Paper II — ADVANCED PHARMACOGNOSY

Time : Three hours

Maximum : 100 marks

Sec. A & B : Two hours and
forty minutes

Sec. A & B : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

SECTION A

Long Essay :

(2 × 15 = 30)

1. Give a detailed account of fermentation technology
with examples and applications. (15)

2. Write an essay on the importance of
pharmacognostical evaluation and their importance in
the raw material standardisation with suitable
examples. (15)

SECTION B

Write Notes on :

(10 × 5 = 50)

3. Tissue culture media
 4. Morphine
 5. Shikimic acid pathway
 6. Callus culture
 7. Biosynthesis of cholesterol
 8. Chemotaxonomy
 9. Digoxin
 10. Alkaloids derived from ornithine
 11. Sennosides
 12. Atropine.
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AUGUST 2004

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Answer ALL questions.

SECTION A

Long Essay :

(2 × 15 = 30)

1. How plant tissue culture helps in drug development through phytobiotechnology? State briefly the importance of embryo culture. Discuss the importance of totipotency in phytobiotechnology.

(7 + 4 + 4)

2. State the main features of quality control of phytomedicines as prescribed by World Health Organisation. What do you mean by finger printing of phytochemicals? Enumerate briefly importance of finger printing in quality control of herbal medicine. (7 + 3 + 5)

SECTION B

Questions of 5 marks :

(10 × 5 = 50)

3. State the various chromatographic techniques used for quality control of quality medicine.
4. Write the importance of plant growth regulators.
5. Write short notes on growth kinetics.
6. State the macroscopic parameters for standardisation of herbal raw material.
7. What is neutraceutical? Explain with examples.
8. Write short notes on shikimic acid pathway.
9. State the biosynthetic procedure for production of atropine.
10. Make a schematic diagram explaining the procedure for plant tissue culture.
11. State the importance of chemotaxonomy in classification of crude drugs.
12. Write short notes on media used for plant tissue culture.