

AQ - 975

Third Semester M. Sc. (Part - II) (CBCS)
Examination

BOTANY

Paper - XI Elective
(Angiosperm Taxonomy, Phytochemistry and
Pharmacognosy - I)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All questions are compulsory and carry equal marks.
(2) Draw well labelled diagrams wherever necessary.

1. Discuss in detail principles of Phytochemical techniques with special reference to UV-Visible and Infra Red Spectroscopy.

OR

Explain High Performance Liquid Chromatography (HPLC). 16

2. Explain :

(a) Flavonoids. 6

AQ-975

P.T.O.

- (b) Saponins. 5
(c) Steroids. 5

OR

- (d) Tannins. 6
(e) Anthroquinones. 5
(f) Resins. 5

3. Discuss :

- (g) Monophyly and Polyphyly. 6
(h) Parallelism and Convergence. 5
(i) Floras. 5

OR

- (j) Homology and Analogy. 6
(k) Monograph. 5
(l) Bracketed key. 5

4. Explain Time and Place of origin of Angiosperms. 16

OR

- (i) Type method. 8
(ii) Valid publication. 8

5. Explain :

(m) Medicinal significance of *Oumum sanctum*. 6

(n) Morphology and chemical Composition of *Datura metel*. 5

(o) Medicinal uses of *Gloriosa superba*. 5

OR

(p) Medicinal uses of *Zingiber officinale*. 6

(q) Morphology and Chemical composition of *Coithania somnifera*. 5

(r) Medicinal uses of *Asparagus racemosus*. 5

