

AQ - 976

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

BOTANY

Paper - XII

(Angiosperm Taxonomy, Phytochemistry and
Pharmacognosy - II)
(Elective)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

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

1. Write a comprehensive account of history of classification.

OR

Give an account of Takhtajans system of classification. Add note on its merits and demerits.

16

2. Comment on :—

- (a) Biosystematics. 6
(b) Phylogeny in relation to taxonomy. 5

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- (c) Numerical taxonomy. 5

OR

- (d) Molecular systematics. 6
(e) Role of cytology in taxonomy 5
(f) Floral anatomy as taxonomic evidence. 5

3. What are living fossils ? Write an account of living fossil angiosperms.

OR

Give an account of vegetative, floral morphology and phylogeny of order magnollidae. 16

4. Comment on general features and phylogeny of :-

- (g) Asterales. 6
(h) Tiliaceae and Bombaceae. 5
(i) Cactaceae and Aizoaceae. 5

OR

- (j) Molluginaceae and chenopodiaceae. 6

- (k) Elaeocarpaceae and Tiliaceae. 5

- (l) Oxalidaceae and Balsaminaceae. 5

5. Write on floral structure and inter-relationships of :—

- (m) Liliaceae and Amaryllidaceae. 6

- (n) Zingiberaceae and Cannaceae. 5

- (o) Butomaceae and imnocharitaceae 5

OR

- (p) Alismatales 6

- (q) Agavaceae and Dioscoreaceae 5

- (r) Costaceae and Musaceae. 5

