

AU-394

M.Sc. (Part—II) Semester—III (CBCS) Examination
BOTANY
(Angiosperm Taxonomy, Phytochemistry and Pharmacognosy—II)
Paper—XII (Elective)

Time : Three Hours]

[Maximum Marks : 80

1. Describe Takhtajan's system of classification of flowering plants. Add a note on its merits and demerits. 16

OR

Describe Thorne's system of classification of flowering plants. Add a note on its merits and demerits. 16

2. Explain :
- (a) Cytology in relation to taxonomy 6
 - (b) Numerical taxonomy 5
 - (c) Palynology in relation to taxonomy. 5

OR

- (d) Floral anatomy in relation to taxonomy 6
 - (e) Biosystematics 5
 - (f) Phytochemical and molecular systematics. 5
3. Describe in detail living fossils of Angiosperms. 16

OR

Describe in detail vegetative, floral morphology and phylogeny of Magnoliidae. 16

4. Describe floral structure and interrelationship of :
- (g) Malvaceae and Bombacaceae 6
 - (h) Oxalidaceae and Tropaeolaceae 5
 - (i) Chenopodiaceae and Amaranthaceae. 5

OR

(j) Nyctaginaceae and cactaceae	6
(k) Asterales	5
(l) Tiliaceae and sterculiaceae.	5
5. Describe floral structure and interrelationship of :	
(m) Alismatales	6
(n) Costaceae and Marantaceae	5
(o) Liliaceae and Amayrillidaceae.	5
OR	
(p) Heliconiaceae and Musaceae	6
(q) Iridaceae and Agavaceae	5
(r) Zingiberaceae and Cannaceae.	5