

This question paper contains 2 printed pages]

V—50—2017

FACULTY OF SCIENCE

B.Sc. (Third Year) (Sixth Semester) EXAMINATION

OCTOBER/NOVEMBER, 2017

BOTANY

Paper XV

(Systematic Botany—II)

(Saturday, 14-10-2017)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) All questions carry equal marks.

(iii) Draw neat and well labelled diagrams wherever necessary.

1. Write short notes on any *four* :

(i) Pollinia in Asclepiadaceae

(ii) Stipules in Rubiaceae

(iii) Stamens in Marantaceae

(iv) Cleistogamous flowers in commelinaceae

(v) Types of apertures in pollen grain

(vi) Who proposed Gnetalean theory ?

2. Write short notes on any *two* :

(a) Floral morphology of Apocynaceae

(b) Economic importance of Nyctaginaceae

(c) Floral morphology of Cyperaceae

(d) Economic importance of Cannaceae.

3. Write short notes on any *two* :

(a) Floral morphology of verbenaceae

P.T.O.

- (b) Economic importance of Rubiaceae
 - (c) Floral morphology of orebidaceae
 - (d) Economic importance of zingiberaceae.
4. Describe in detail any *one* of the following :
- (a) Define polynology. Discuss in detail morphology of pollen grain of *Ipomoea*.
 - (b) Discuss origin of Angiosperms with the help of Bennettitalean theory.
5. Write short notes on any *two* :
- (a) Morphology of pollen grain of *Datura*
 - (b) Importance of polynology
 - (c) Concept of primitive flower
 - (d) Pteridosperm theory.