This question paper contains **2** printed pages]

Y—64—2019

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2019

(CGPA Pattern)

BOTANY

Paper XV

(Systematic Botany—II)

(Friday, 18-10-2019)   **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.   Describe family Asclepiadaceae with floral formula and floral diagram.   8

Or

   (a)   Give economic importances of Rubiaceae.   4

   (b)   Describe floral characters of verbenaceae.   4

2.   Describe family zingiberaceae with floral formula and floral diagram.   8

Or

   (a)   Economic importance of orchidaceae.   4

   (b)   Describe floral characters of commelinaceae.   4

3.   What is Palynology ? Describe in detail morphology of Pollen grains.   8

Or

   (a)   Short notes on pollen grain of *Hibiscus*.   4

   (b)   Short notes on pollen grain of *Ipomoea*.   4

P.T.O.

4. Describe in detail Pteridosperm theory. 8

Or

(*a*) Comment on limitations of Gnetalean theory. 4

(*b*) Concept of primitive flower. 4

5. Write short notes on any *four* of the following : 8

(*a*) Floral formula of Apocynaceae

(*b*) Floral diagram of convolvulaceae

(*c*) Botanical name and family of Banana

(*d*) Diagram of pollen grain of *Datura*

(*e*) Floral diagram of Musaceae

(*f*) Who proposed Bennetitalean theory.