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Y—55—2019

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2019

(CGPA Pattern)

BOTANY

Paper XII

(Plant Physiology)

(Thursday, 17-10-2019)

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. What is ascent of sap ? Describe in detail transpiration pull theory. 8

Or

Describe in brief :

(a) Structure of Stomata

(b) Osmosis.

2. What is translocation of organic solutes ? Explain the mechanism of translocation. 8

Or

Describe in brief :

(a) Ion-exchange theory

(b) Deficiency symptoms of Nitrogen.

3. Define photoperiodism ? Describe SDP and LDP. 8

P.T.O.

Or

Describe in brief :

- (a) Types of seed germination.
- (b) Practical applications of Gibberellins.

4. What are secondary metabolites ? Describe Biological functions of terpenoids. 8

Or

Describe in brief :

- (a) Biological functions of starch.
- (b) Primary structure of protein.

5. Write short notes on (any four) : 8

- (a) Imbibition
- (b) Thigmotropic movement
- (c) Scarification
- (d) Practical Applications of abscisic acid.