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W—48—2018

FACULTY OF SCIENCE

B.Sc. (Fifth Semester) EXAMINATION

OCTOBER/NOVEMBER, 2018

(CGPA Pattern)

BOTANY

Paper XII

[Plant Physiology (Compulsory)]

(Saturday, 13-10-2018)

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. Define Transpiration. Add a note on mechanism of Transpiration. 8

Or

Write short notes on :

(a) Diffusion

(b) Classification of plant movements.

2. Describe Active and Passive absorption of water in plants. 8

Or

Write short notes on :

(a) Role of K and Fe in plants

(b) Munch's mass flow hypothesis.

3. Define photoperiodism. Add a note on SDP and Day neutral plants. 8

Or

Write short notes on :

(a) Factors affecting seed germination

(b) Vernalization and Devernalization.

P.T.O.

4. What are secondary metabolites ? Add a note on functions of Tannins and Terpenoids. 8

Or

Write short notes on :

- (a) Disaccharides
- (b) B-sheets of proteins.
5. Write short notes on (any *four*) : 8
- (i) Osmosis
- (ii) Plasmolysis
- (iii) Role of Zn and Mn in plants
- (iv) LDP
- (v) Biological functions of Alkaloids
- (vi) Biological functions of starch.