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AO—44—2018

FACULTY OF SCIENCE

B.Sc. (Fifth Semester) EXAMINATION

MARCH/APRIL, 2018

BOTANY

Paper XII

[Plant Physiology (Compulsory)]

(Thursday, 22-3-2018)

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. Describe the process of Diffusion and plasmolysis. 8

Or

Write short notes on :

(a) Significance of Transpiration.

(b) Phototropism.

2. What is translocation of organic salutes ? Add a note on Munch's mass flow hypothesis. 8

Or

Write short notes on :

(a) Ion exchange theory.

(b) Role of sulphur and phosphorus.

3. Describe different methods of breaking the seed dormancy. 8

Or

Write short notes on :

(a) SDP

(b) Vernalization and devernialization.

P.T.O.

4. What are carbohydrates ? Add a note on monosaccharides. 8

Or

Write short notes on :

- (a) Biological functions of Tannins.
- (b) α -helix of proteins.

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

- (a) Imbibition
- (b) Seismotropic movement
- (c) Day neutral plants
- (d) Gibberellins
- (e) Biological functions of cellulose.
- (f) Biological functions of Starch.