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BF—48—2016

FACULTY OF SCIENCE

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

OCTOBER/NOVEMBER, 2016

(New Course)

BOTANY

Paper XII

(Plant Physiology)

(Saturday, 15-10-2016)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) Figures to the right indicate full marks.

1. What is Transpiration ? Explain in detail Starch-Sugar interconversion theory. 8

Or

(a) Importance of water in plant life.

(b) Geotropism.

2. What is mineral salt absorption ? Add a note on active absorption. 8

Or

(a) Role of Zn in plant nutrition.

(b) Pressure flow theory.

3. What are phytohormones ? Discuss the application of any *one* of them. 8

Or

(a) Arc auxonometer.

(b) Vernalization.

4. What are lipids ? Classify and give its biological significance. 8

Or

(a) Secondary structure of proteins.

(b) Biological functions of cellulose.

P.T.O.

5. Write notes on :

8

- (a) Diffusion
- (b) Chemotropism
- (c) Role of potassium in plant nutrition
- (d) Application of Ethylene
- (e) Long day plants
- (f) Disaccharides.