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B—55—2019

FACULTY OF SCIENCE

B.Sc. (Fifth Semester) EXAMINATION

MARCH/APRIL 2019

(CGPA Pattern)

BOTANY

Paper XII

(Plant Physiology)

(Monday, 25-3-2019)

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 diagram wherever necessary.

1. Give an account of different theories of mechanism of closing and opening of stomata. 8

Or

(a) Transpiration pull theory of Ascent of sap 4

(b) Paratonic and nastic movements. 4

2. Describe ion exchange and carrier concept theory. 8

Or

(a) Role of Nitrogen and Phosphorus 4

(b) Munch mass flow hypothesis. 4

3. Describe chemical nature and biological applications of Abscisic acid and ethylene. 8

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(2)

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Or

- (a) Methods of breaking seed dormancy 4
- (b) Photoperiodism. 4
4. Give an account of structure and biological functions of primary and secondary proteins. 8

Or

- (a) Polysaccharides 4
- (b) Biological functions of flavonoids alkaloids. 4
5. Write short notes on (any four) : 8
- (a) Osmosis
- (b) Deficiency of potassium
- (c) Role of nitrogen
- (d) Practical applications of Gibberelin
- (e) Vernalisation
- (f) Biological functions of liquids.

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