This question paper contains 2 printed pages]

Y-54-2019

FACULTY OF SCIENCE

B.Sc. (Fifth Semester) (Backlog) EXAMINATION OCTOBER/NOVEMBER, 2019 (CBCS Pattern)

BOTANY

Paper XII

(Plant Physiology)

	(Flant Phy	Siology
(Thursda	y, 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.
1. Atte	empt any four of the following (I	Each of 2 marks):
(a)	Osmosis	7.
(<i>b</i>)	Types of Transpiration	
(c)	Role of potassium	
(d)	Role of Ethylene	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
(e)	Vernalization	
(f)	Biological functions of Tannir	S.
2. Atte	empt any <i>two</i> of the following (E	ach of 4 marks):
(a)	Describe the process of Diffus	ion and plasmolysis.
(b)	Define transpiration. Add a n	ote on opening and closing of stomata.
(c)	What is mineral salt absorpti	on ? Explain carrier concept theory.
3. Atte	empt any one of the following (E	ach of 8 marks):
(a)	What are plant movements?	Explain in detail Tropic movements.
(b)	What is Ascent of sap? Desc	ribe transpiration pull theory.

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- 4. Attempt any two of the following (Each of 04 marks):
 - (a) Define photoperiodism. Note on LDP, SDP and Day neutral plants.
 - (b) Application of Gibberellins.
 - (c) α , β -helix of proteins.
- 5. Attempt any one of the following (Each of 8 marks):
 - (a) What is seed dormancy? Add a note on causes of seed dromancy.
 - (b) What are carbohydrates? Explain biological functions of starch and cellulose.