Total Pages-02

2021

BOTANY

[HONOURS]

(CBCS)

(B.Sc. Fifth End Semester Examination-2021)

PAPER-C12T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks Candidates are required to give their answers in their own words as far as practicable Illustrate the answers wherever necessary

Group - A

1.	Ans	wer any fiveof the following:	5x2=10
	a)	What is antitranspirant. Cite example.	2
	b)	What is CDL?	2
	c)	What is guttation? Where it is found?	2
	d)	What do you mean vernalization?	2
	e)	What is facilitated diffusion? How is it different	from
		active transport?	

- f) Differentiate between Low energy responses (LER) and High irradiance responses (HIR)?
- g) What is florigen? Which protein shows the properties of florigen? (1+1)

h)	What is triple role of ethelene?	2
i)	What is symplast and apoplast?	2

Group – B

2. Answer any four of the following: 4x5 = 20a) Describe the ion movement events during stomatal opening

- and closing. 5 b) Briefly describe the ascent of sap on the basis of cohesion -
- tension theory. 5 5
- Discuss the role of florigen for flowering. c)
- d) What are trace elements? Mention the role of Fe and Mn in plant life. 5
- Classify plants on the basis of photoperiodic response with e) example. 5
- Discuss chemical nature of ethylene. What are the f) functions of this hormone? (2+3)
- With apoplastic diagram, explain apoplectic, symplastic g) and transmembrane pathway for movement of water in the root.

Group – C

3. Answer any one of the followings: 1x10=10

a) How does phloem loading and unloading translocate photosysthates in plants? 2 + 8 = 10

b) Explain with figure the bioassay of Auxin through Avena curvature test. What is the role of ABA in stomatal closure? Who discovered Gibberellins and from where?

(5+3+2)
