	Bankura University B.Sc 4th Semester (Program) Examination, 2022 Subject: Botany Course ID: 41318					
Course Code: SPBOT/401/C-1D						
	Course Title: Plant Physiology & Metabolism					
	Full Marks: 25			Time: I h 15 m	Time: I h 15 mins	
The figures in the margin indicate full marks						
			UNIT-I			
1.	An	swers any five question	1X5=5			
	a)	What is PSU?				
	b)	What is role of ABA i	n seed germination.			
	c)	What is reaction cen	tre?			
	d)	What is light de acidi	fication?			
	e)	Define Phytochrome				
	<ul><li>f) What is oxidative phosphorylation?</li><li>g) What is transpiration Pull?</li></ul>					
h) Why 'TCA cycle' is so called?		called?				
	UNIT-II					
2. Ans		swer any two of the f	ollowing:	5	5X2=10	
	a) Explain induced fit model of enzyme action.					
	b)	b) Briefly explain the biochemistry of symbiotic mode of nitrogen fixation.				
	c)	c) Briefly explain the significance of C4 pathway.				
	d)	Describe the role of	Phyto-hormone in agricult	ure.		
			UNIT-III			
3.	Answer any one question from the following:			1	l0x1=10	
	a) What is terminal respiration? Explain briefly the ETC along with ATP synthesis				thesis	
		mechanism in conne	ction with cellular respiration	on.	2+8	

b) Explain briefly the opening and closing of stomata in connection with transpiration. How does the conduction of water take place in plants? 5+5