Total No. of Printed Pages: 2

## SUBJECT CODE NO: - Y-2064 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. S.Y (Sem-IV)

Examination March / April - 2023 Botany Paper- XII Plant Physiology

լուտ	e: 1:50 Hours] [Max. Mai	KS: 5
N. B	Please check whether you have got the right question paper.  1. Attempt all questions.	
	2. Illustrate your answer with suitable labelled diagram.	
Q1	What is imbibition? Describe imbibition with respect to the osmatic effect and its Quantitative aspects?	20
	OR OR	
	Discuss briefly mechanism of opening and closing of stomata and describe classical theory of its mechanism?	
Q2	Define growth. Discuss various phases of growth?	20
	OR T	
	Write short notes on (any four)	
	a) Apo enzyme	
	b) Cytokining	
	c) CAM pathway	
	d) ATP	
	e) Carrier concept	
	f) Mass flow hypothesis	
0,		
Q3	Multiple choice questions.	10
	1. The site of photosynthesis is	
	a) Chloroplast	
	b) Mitochondria	
	c) Endoplasmic reticulum	
	d) Nucleus	
	2. End product of Calvin cycle is	
	a) PGA	
	b) ADP + NADP	
	c) RUBP	
	d) PGAL	
	3. The nature of enzyme is	
	a) Lipid	
	b) Vitamins	
	c) Carbohydrate	
7	d) Protein	

4.		cell differentiation phase Cell elongation phase None of the above
5.		ansport of photosynthesis from mesophyll chloroplast to the phloem of nature
	lea	ves is
	a)	Phloem loading
	b)	Phloem unloading
	c)	Both a & b
	d)	None of the above
6.		of the following is a macronutrient.
	a)	Chlorine
	b)	Magnese
	c)	Zinc S S S S S S S S S S S S S S S S S S S
	d)	Phosphorous
â	<b>Y</b> _	
70		mosrs is a special kind of
	a)	Regulation
		Absorption
	c)	Diffusion
	d)	Adsorption
8.	Un	take of water from soil by root is called as
<b>.</b>		Ascent of sap
		Absorption of water
	c)	Both a and b
	d)	None of the above
Z.	ω,	
9.	En	d product of krebs cycle is
	a)	CO <sub>2</sub> and H <sub>2</sub> O
	b)	FADH <sub>2</sub>
	c)	NADH C
	d)	All of these
	ĺ	
10.	Wl	no discovered the process of photophosphorylation?
		Warburg
	b)	Arnon
	(c)	Calvin
	d)	Priestey