(i)	Printed Page	s : 4]	Roll No.					
(ii)	Questions	:9]	Sub. Code:	0	5	5	1	

Exam. Code : 0 0 0 6

B.A./B.Sc. (General) 6th Semester Examination

1047

BOTANY

Paper - A: Plant Physiology-II

Time: 3 Hours] [Max. Marks: 36					
Note :-	Attempt <i>five</i> questions in all, selecting at least <i>one</i> question from each Unit. Question No. 1 is compulsory.				
1. (A)	Multiple choice questions.				
	(i) The flowers of Crocus and Tulipa show:				
	(a) Photonasty (b) Hyponasty				
	(c) Thermonasty (d) None of these				
	(ii) Which of the following hormone is responsible for degreening of citrus fruits?				
	(a) ABA (b) Cytokinin				
	(c) Ethylene (d) None of these				
N-223	Turn Over				

	(iii)	The	empirical formu	ıla of	chl a is	
		(a)	$C_{55}H_{70}O_6N_4M$	1g	R	
4 0		(b)	$C_{55}H_{72}O_{5}N_{4}M_{55}$	1g		
		(c)	$C_{55}H_{72}O_6N_4M$	1g		
	9.726	(d)	None of these			
	(iv)		is ca	lled '	'Father o	of plant
		tissu	e culture.			
		(a)	G. Haberlandt	(b)	G. Mo	rel
		(c)	Skoog	(d)	None o	of these
	(v)	RQ	is less than unit	ty in		
		(a)	Fat & Protein	(b)	Organio	c acids
		(c)	CAM plants	(d)	None o	of these
	(vi)	Whic	ch of the follow	wing	is last	electron
		acce	ptor in oxidative	pho	sphorylat	ion?
		(a)	Hydrogen	(b)	Oxygen	1
		(c)	Water	(d)	ATP	
(B)	Fill	in the	blanks:			
	(i)		acts	as a	fusogeni	c agent
		for s	omatic hybridiza	ition.		
N-22	3		(2)			

		(ii)	The rate of res	piration increases	during		
			the absorption of	salt. This increase	in rate		
			of respiration is	called			
		(iii)	····· [prevents breakdov	vn of		
			chlorophyll hen	ce delays senescer	nce in		
			plants as hormo	ne.			
		(iv)	horn	one is responsible	for the		
			inhibition of late	eral buds.			
		(v)	The cells most	commonly used for	para-		
			sexual hybridiza	tion are			
		(vi)	The first stable	product in C ₃ pla	ants is		
				i do laticido a	1×12=12		
			Uni	t–I	3 each		
2.	2. Write an accounts on:						
	(a) Difference between Photosystem I and						
	Photosystem II.						
	(b) Hatch-Slack cycle or C ₄ cycle.						
3.	Write	an	account on:		e Write		
	(a)	Z-scheme of Non-cyclic photophosphorylation.					
	(b)	(b) Photorespiration.					
1	-223		(3)	Turn Over		

- 4. Write an account on:
 - (a) Glycolysis
 - Difference between aerobic and anaerobic (b) respiration
- 5. Write notes on:
 - Krebs cycle (a)
 - (b) Importance of fermentation

Unit-III

3 each

- 6. Write an account on:
 - Physiological role of Cytokinin (a)
 - (b) Photoperiodism
- 7. Write an account on:
 - (a) Florigen
 - Physiological role of Auxin (b)

Unit-IV

3 each

- Write an account on:
 - Parasexual hybridization (a)
 - Cell suspension culture
- 9. Write notes on:
 - (a) Meristem culture
 - Applications of plant tissue culture

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(4)