(1)	Pı	rintec	l Pages	s:3		AT NO.	Roll	No	••••••	•••••		•••••
(ii)	Q	uesti	ns :	:9		Sub. Co			0	5	5	0
					Ex	am.	. Co	de:	0	0	0	6
			B.A	./B.Sc.	(Gen	eral)	6th Se	emeste	er			
			iqwold.		10	059		lejodini				
					вот	TANY	I n					
			Pa	per–A	: Plan	t Phy	siolo	gy—II	D.			
Tir	Time Allowed : Three Hours]							[Maxi	mun	ı Ma	rks	: 36
No	te :	- Atte	empt fi	ve ques	tions i	n all.	Ques	tion N	o. 1 is	s con	npul	sory
No 1.		one	sisting from e	ve ques of 12 m each Un	narks.		-				-	
		con one ltiple	sisting from e	of 12 m	narks. Anit. ions:-	Attem	npt 4 i	more q	uesti	ons s	-	
	Mu	con one ltiple	from e Choice	of 12 meach Un	narks. Anit. ions:-	Attem	npt 4	more q	uesti	ons s	-	
	Mu	con one ltiple O_2 e	from e Choice	of 12 meach Un e Questi	narks. Anit. ions:-	Atten	npt 4	more quadratic comes H_2O	uesti	ons s	-	
	Mu	con one ltiple O ₂ e (i) (ii)	from e Choice evolved CO ₂	of 12 meach Un e Questi	narks nit. ions:	Attem— — osynth	nesis (ii) (iv)	comes H ₂ O Air	from	ons s	selec	
	Mui (a)	con one ltiple O ₂ e (i) (ii)	from e Choice evolved CO ₂	of 12 meach Under Questing during ose	narks nit. ions:	Attem— — osynth	nesis (ii) (iv)	comes H ₂ O Air	from	ons s	selec	
	Mui (a)	con one ltiple O ₂ e (i) (iii) In P	from e Choice evolved CO ₂ Gluco rotopla	of 12 meach Under Questing during ose	narks nit. ions:	Attem— — osynth	nesis (ii) (iv) the su (ii)	comes H ₂ O Air	from	ons s		
	Mui (a)	con one ltiple $O_2 \in (i)$ (iii) In P (i) (iii)	from e Choice CO ₂ Gluco rotopla Starch	of 12 meach Under Questing during ose	narks nit. ions:- g photo	Attem	nesis (ii) (iv) the su (ii) (iv)	comes H ₂ O Air abstrat Fats All	from	ons s		
	Mu: (a)	con one ltiple $O_2 \in (i)$ (iii) In P (i) (iii)	from e Choice CO ₂ Gluco rotopla Starch	of 12 meach Under Questing during ose asmic Runns mone of the control of the cont	narks nit. ions:- g photo	Attem	nesis (ii) (iv) the su (ii) (iv)	comes H ₂ O Air abstrat Fats All	from	e?		

	(d)	The	part of plant used for	r culturing	g is called:	17 4				
		(i)	Starter	(ii)	Explant					
0		(iii)	Deplant	(iv)	Tissue					
	(e)) Trap centre in photosystem is made up of:								
		(i)	Carotene	(ii)	Chlorophyll a					
		(iii)	Xanthophyll	(iv)	Chlorophyll b					
	(f)	RQ								
		(i)	Glucose	(ii)	Fats					
		(iii)	Organic Acids	(iv)	Anaerobic res	piration				
	Fill	in the	e blanks :—							
	(g)	The radiation between 400–700 nm is called								
	(h)	The name of Bakanae Disease is associated with hormone namely								
	(i)	The site of oxidative phorphorylation is								
	(j)	The	place on DNA where	Replicati	on is initiated	(8)				
	(k)	Acti	ual phase of growth i	is the phas	se of					
	(I)	Photo receptor organ in Plants is 12×1=12								
			UNIT	_I						
2.	(a)	Describe C ₄ Cycle for CO ₂ fixation.								
	(b)	Write differences between C ₃ & C ₄ cycle/plants.								
3.	Write notes on :—									
	(a)	H ₂ O and Evolution of O ₂								
	(b)	Significance of Photosynthesis. 3+:								

UNIT-II

- 4. Explain the major steps in Kreb's Cycle. Write its energy output. Why is it called Citric acid or Tricarboxylic Acid Cycle? 6
- 5. Write notes on :-
 - (a) Respiratory Substrates
 - (b) Fermentation
 - (c) Biological Energy Currency.

 $3 \times 2 = 6$

UNIT-III

6. Describe various types of Vital Movements in Plants with examples.

6

- 7. Write short notes on :-
 - (a) Phases of Growth
 - (b) Auxins as selective weedicide
 - (c) Bolting.

3+1.5+1.5

UNIT-IV

- 8. Describe briefly process and applications of Tissue Culture. 6
- Write notes on :—
 - (a) Definition and principles of Bio-Technology.
 - (b) Protoplast Culture.

3 + 3