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Please check whether you have got the right question paper

		got the right question paper.
	N.B: i)	All questions are compulsory
	ii)	Figures to the right indicate full marks
	iii)	Draw neat and labeled diagrams whenever necessar
Cho	ose the corre	et option from the following:

Q.1		A. Choose the correct option from the following:	1
	a.	Simple tissues are parenchyma, collenchyma andi) xylem ii) phloem iii) sclerenchyma iv) stele	
	b.	When protoxylem lies on the outerside of metaxylem towards the periphery, the condition is called as	
		i) Mesarch iii) Exarch iii) Endarch iv) None of the above	
	C.	Companion cells are components of  i) Cambium  ii) Xylem  iii) Phloem  iv) Parenchyma	
	d.	Cells surrounding the guard cell are called cells.  i) accessory ii) subsidiary iii) motor iii) bulliform	
	e.	pH of the lumen of thylakoid in the presence of light i) increase ii) decrease iii) remain same (iv) none of the above	
	f.	The total requirement of ATP & NADPH for each molecule of CO <sub>2</sub> fixed & reduced in photosynthesis is	٠
-	g.	i) Lumen of thylakoid ii) Stroma of chloroplast iii) Membrane of thylakoid iv) Inner membrane of chloroplast	
ŀ	1.	Purine, pyrimidines, cellulose, starch are examples of metabolites.  i) Secondary ii) Primary iii) Tertiary iv) Quaternary	
i	*	i) Roots ii) Dried rhizome iii) Leaves iv) Entire plant	
j.		i) Aloin ii) Eugenol iii) Santalol iv) Vasicine	0
	1	B. Answer the following in an a centance:	

the following in one sentence:

a) Why chlorophyll a is the reaction center?

b) What is the role of bulliform cells?

c) Give role of water in photosynthesis.

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	d) Name any one Phloem element. e) Name any one energy rich metabolites	
Q.2	Answer any two from the following:	
	a) Describe different components of phloem tigging	10
	Write a note on various enidermal appointment	
	<ul><li>c) Describe the types of stomata. Add a note on its functions.</li><li>d) With the help of neat and labeled diagram explain T.S. of monocot stem.</li></ul>	
Q.3	Answer any two from the following:	
	<ul> <li>a) Describe the calvin pathway of carbon fixation in C<sub>3</sub> plants.</li> <li>b) Describe the role of plant pigments involved in the calvin pathway of carbon fixation in C<sub>3</sub> plants.</li> </ul>	10
	c) Describe non-cyclic photophosphorylation. d) Explain CAM pathway.	
Q.4	<ul> <li>Answer any two from the following:</li> <li>a) Give an account of secondary metabolites with reference to types, example &amp; functions.</li> <li>b) What is grandma's pouch? Give botanical name, family, active constituents &amp; uses of Aloe.</li> <li>c) What is medicinal botany? Add a note on active constituents &amp; uses of Turmeric and Ginger.</li> <li>d) What are primary metabolites? Add a note a different types of primary metabolite.</li> </ul>	3-
2.5	Write short notes on (any four):	
	a) Nature & role of light in photosynthesis b) Difference between PS-1 & PS-11	0
	c) Epidermal tissue system	4
	d) Phloem tissue e) Significance of photosynthesis f) Tulsi	
	Madelat V ment it is	

Que role of water in pherographesis.