(2) What is Palisade parenchyma?

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SARDAR PATEL UNIVERSITY

S.Y.B.Sc (THIRD SEMESTER) EXAMINATION

SATU	URDAY 30 th NOVEMI	BER, 2013	2.30	pm TO 5.30 pm	
US03CBOT02 (Plant histology ,Taxon	omy ,Econom	ic Botany .Phys	iology) Total Mai	r ks- 7 0
Note – Draw neat and	labelled diagram wherev	er necessary			
Q -1 Multiple choice	questions				(10)
(1) The Cork cambiu	m is an example of				
(a) Lateral me	ristem (b) Primary meris	stem (c) Apica	al meristem (d) I	ntercalary meristem	
(2) Collenchyma is for	ound in the stem and p	petiole of			
(a) Hydrophyt	es (b) Herbaceou	s climbers	(c) Xerophyt	es (d) Lianas	
(3) Gynobasic style is	present in				
(a) Oscimum	(b) Ixora	(c) Cucurbita	(d) N	Ione of these	
(4) Name the family fr	om which the rubber of o	commerce is ob	otained		
(a) Rubiaceae	(b) Euphorbiac	ceae (c) C	Cucurbitaceae	(d) None of these	
(5) Papilionaceous con	rolla is found in	,			
(a) Fabaceae	(b) Lamiaceae	(c) N	Ieliaceae	(d) None of these	
(6) Tectona grandis is	s the botanical name of				
(a) Sal	(b) Shisam	(c) Teak	(d) N	leem	
(7) The botanical nam	e of cotton plant is				
(a) Crotolaria	(b) Corchorus	(c) G	ossypium	(d) Cinchona	
(8) Seed germination	is affected by light is	called			
(a) Photoblasti	c (b)Thermoblastic	(c) Negative	geoblastic	(d)none of these	
(9) During photosynthe	esis oxygen is evolved fro	om			
(a) H ₂ O	(b) Chlorophyll	(c) Co ₂	(d) Sunlight		
(10) First stable produc	et of C ₃ cycle is				
(a) PGA	(b) RUBP	(c) H ₂ o	(d) None of t	hese	
Q -2 Answer the follo	wing questions (Any T	čen)			(20)
(1) Write function of 4	\erenchyma				

(3) What are tracheary elements?					
(4) Define – Monadelphous stamen					
(5) Explain corolla of Brassicaceae					
(6) Define – Hypogynous flower					
(7) Write two qualities of coffee					
(8) Write the uses of cotton					
(9) Write family and botanical name of Sal tree					
(10) What is germination?					
(11) What is Photoperiodism?					
(12) List the methods of breaking of seed dormancy					
Q-3 (a) Explain the structure and types of Sclerenchyma		(05)	0		
(b) Explain the types of Meristem based on its position		(05)			
OR					
Q -3 (a) Describe the structure of Phloem					
(b) Write note on xylcm parenchyma and xylem fiber		(04)			
Q -4 Explain the general characters and economic importance of Meliaceae family					
OR					
Q -4 Write general characters and economic importance of Asteraceae family		(10)			
Q -5 (a) Describe the biological source ,properties and uses of Mustard oil		(05)			
(b) Explain the cultivation and uses of Jute		(05)			
OR			()		
Q -5 (a) Explain the biological source, properties and uses of Ground nut oil		(05)			
(b) Write family ,botanical name and uses of following					
(1) Mung (2) Rice		(05)			
Q -6 (a) Explain the mechanism of opening and closing of Stomata		(05)			
(b) Explain causes of Seed dormancy		(05)			
OR					
Q-6 (a) Explain the Non cyclic Photophosphorylation					
(b) Write the role and deficiency symptoms of Potassium and Zinc		(05)			