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SARDAR PATEL UNIVERSITY S.Y.B.Sc.4th SEMESTER EXAMINATION 16th April 2016,Saturday 10.30 AM to12.30 PM

Plant Histology, Taxonomy, Physiology and Genetics (US04EBOT 01)

Total Marks-70

Q.1 1.	Multiple Choice Questions (one mark each) The cells of tissue are generally dead cells.	10
	(a)Parenchyma(b)Chlorenchyma(c)Aerenchyma (d)Sclerenchyma	
2.	The thickenings are confined to corners of cells intissue.	
	(a)Parenchyma(b)Collenchyma (c) Aerenchyma(d) Sclerenchyma	
3.	The function of photosynthesis is carried out by cells.	
4.	(a) Parenchyma (b) Chlorenchyma (c) Aerenchyma (d) Sclerenchyma Clove is an economically important plant of family.	
5.	(a) Myrtaceae (b)Caesalpinaceae (c) Lamiaceae (d)Rubiaceae Vexillary aestivation is found in plant. (a) Psidium guajava (b) Pisum sativum (c) Eucalyptus globosus (d) all	
6.	Gynobasic style is a characteristic feature in family.	
7.	(a) Myrtaceae (b)Caesalpinaceae (c) Lamiaceae (d)Rubiaceae Transpiration occurs from	
	(a)leaves (b)stems (c) roots (d) none	
8.	The first stable product of carbon assimilation is	
	(a)PGA (b)Glucose (c)Starch (d) Pyruvic acid	
9. 10.	Mendel's Dihybrid phenotypic ratio is (a)1:2:1 (b)1:1 (c)3:1 (d)9:3:3:1	
10.	The ratio of complementary gene interaction is	
	(a)9:7 (b)9:3:4 (c) 12:3:1 (d)9:3:3:1	
0.2	A	
Q.2 1	Answer any ten Discuss about the apical meristem.	20
2	Write characteristics of Collenchyma cells.	
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	3 4 5 6 7 8 9 10 11	Give an outline classification of tissue system. Write about the corolla of Fabaceae family. Write about diadelphous condition of stamens. Write botanical names of 2 plants of Myrtaceae family. What is Guttation? Explain the term Dormancy. What are macro and micro nutrients. What is test cross? Explain law of purity of gametes. What is Crossing over?		
	Q.3a. b.	Discuss the structure and function of Sclerenchyma tissue. Write about Xylem Tissue		5 5
	Q.3a.	OR Discuss the structure and function of P		
	b.	Discuss the structure and function of Parenchyma tissue. Write about the Phloem tissue.		5 5
	Q.4a.	Explain floral characters of family Lamiaceae.		5
	b.	Write a note on economic importance of family Fabaceae.		5
	Q.4a. b.	Write about floral characters of family Rubiaceae. Write about economic importance of family Myrtaceae.		5 5
	Q.5a. b.	Write about cyclic photophosphorylation. Write the factors affecting transpiration. OR		6
	Q.5a. b.	Write about the role of Nitrogen and iron in mineral nutrition. Discuss the factors affecting photosynthesis.		6 & j
(Q.6	Write about Supplementary gene interaction with examples.		10
		OR		
(Q.6 .	Explain in detail Mendel's law of Dominance and law of Independent Assortment.	1	10

