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SEAT No.____

No. of Printed Pages: 02

SARDAR PATEL UNIVERSITY

Q.Sc-4th SEMESTER- BOTANY

US04EBOT01 (2010-Bartch)

(Plant Histology, Taxonomy, Physiology and Genetics) 16/04/2019, Hest day, 10.00 a.m. -12.00 noon, Marks-70

10/04/2019 Wednesday

Q-1 Multiple choice questions.

(10)

Q-1 Multiple choice questio	ns.	Medical	(10)	
(i)Parenchyma which perfor				
(a)chlorenchyma		(c)aeranchyma	(d)sclerenchyma	
(ii)Air spaces are found in			1.65 D. 1	
	(b)aeranchyma		(d)collenchyma	
(iii)Which of the following to				
• •	(b)sclerenchyma		(d)all the above	
(iv)Epipetalous stamens and	l axile placentation are	found in		
(a)Brassicaceae	(b)Myrtaceae	(c) Mimosaceae	(d)Rubiaceae	
(v)Flower is zygomorphic in				
(a)Fabaceae	(b)Myrtaceae	(c)Rubiaceae	(d)Cruciferae	
(vi)Corolla is gamopetalous	in:			
(a)Brassicaceae	(b)Rubiaceae	(c)Fabaceae	(d) Caesal pinieae	
(vii)The metal ion involved in stomatal regulation is:				
(a)Iron	(b)Magnesium	(c)Potassium	(d)Zinc	
(viii)Hill's reaction occurs in	•			
(a)stroma	(b)ground meristem	(c)cristae	(d)grana	
(ix)Crossing over occurs at:				
(a)tetrad stage	(b)leptotene	(c)anaphase	(d)metaphase	
(x)The yellow colour of coty	ledon is dominant ove	r:		
(a)white	(b)green	(c)grey	(d)red	
Q-2 Attempt following questions (any ten).			(20)	
(i)What are complex tissues	s?		•	
(ii)What are the functions o				
(iii)Name the various types	·		•	
(iv)Describe the floral chara		inaceae.		
(v)Write the economic imp				
(vi)Describe the vegetative				
(vii)Give two functions of the				
(viii)Name the internal fact				
(ix)Name four micronutrier	•			
(x)What is epistasis?	1 71	•		
(xi)Name four stages involv	ed in crossing over.			
(xii)Define:Back cross.			^	
(AM) Detrite David Cross	6	ñ	(P.T.V)	
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Q-3 Write about the structure, types and functions of sclerenchyma. OR	(10)
Q-3Write notes on: (a)Collenchyma.	(05)
(b)Xylem Parenchyma.	(05)
Q-4(a)Give a brief account of: Biological concepts of Species.	(06)
(b)Write the economic importance of Fabaceae.	(04)
OR	
Q-4Describe the characters and economic importance of Rubiaceae.	(10)
Q-5Explain:Seed dormancy and seed germination. OR O. F.Write about the various external and internal factors that effects	(10)
Q-5Write about the various external and internal factors that affect photosynthesis.	(10)
Q-6Describe following: (a)Incomplete dominance.	(05)
(b)Dihybrid test-cross.	(05)
OR	
Q-6Explain: (a)Supplementary genes.	(05)
(b)9:7 ratio.	(05)
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