, -	Biochemistry: Paper II	
VCD.	-17/10/19	
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		104g et lazer
	(3 Hours)	(100 Marks)
	Note: 1. All questions are compulsory. Choice is internal.	
	2. Figure to right indicates full-marks	
	3. Draw diagrams wherever necessary	
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	Q1 a) State True or False:	(04)
	1. Genetics arose out of the identification of genes, the fundamental units res	nonsible for beredit
	2. Diffyord cross is a cross between parents in which one pair of contrasting	characters are studied
	simultaneously for the inneritance pattern.	
	3. 'O+' blood group is universal donor.	
	4. A Mendelian trait is one that is controlled by more than one locus in an inh	eritance pattern.
	Q1 b) Attempt any three of the following:	
	1. Why is Mendel considered Father of Genetics?	(09)
	2. A cross found between round radishes (RR) and long radishes (LL) produc	es oval radichae (DI)
	what would the offspring be like if you cross a round radish with an oval ra	es ovai radishes (RL).
	3. Explain dominance and co-dominance.	
	4. Enlist types of gene interaction. Explain any 1 of the types.	
	5. Explain recessivity and lethal genes.	
	6. Explain the difference between dominant trait and recessive trait.	
	OLo) Attempt any two of the fill	
	Q1 c) Attempt any two of the following:	(12)
	<ol> <li>Explain correspondence between Mendelian factors and chromosomes.</li> <li>Discuss in detail gene interaction.</li> </ol>	
	3. Write an informative note on Mendel's law of inheritance.	
	4. In addition to the summer squash, it is known that disk shape is domina	
	cross between a plant with white disk fruit and one with yellow sphere fr	nt to sphere shape. A
	with write disk, 20 plants with white sphere. 24 with yellow disk, and 7	5 with willow and
*	<ul> <li>fruits. If the white disk parent is self-fertilized, what proportion will have ye</li> </ul>	llow disk fruite?
		now disk fruits.
	Q2 a) State True or False:	(04)
*	Interstitial fluid is intracellular fluid.	and our remodest on at
	2. The pH of lymph is basic.	
	3. Blood is first transporting agent for liver hormone.	
	4. Lymph helps in transportation the vitamin A.	
	Q2 b) Attempt any three of the following:	(00)
	1. What is a blood coagulation?	(09)
	2. Give the name of all blood clotting factors.	
	3. What is the composition of bile acid?	

4. Explain the composition of urine. 5. Explain the role of urine in human body. 6. Explain the composition of lymph.

Q2 c) 1. 2.	activator.  Explain the urine formation with the help of neat and labelled diagram.	(12)
.4.	Justify: the blood act as a principal transporting agent in human body.	
1. 2. 3.		(04)
	How doesOxygen and Carbon dioxide exchange take place in lungs? What is bioaccumulation? Explain its relationship in transportation system with an extension of the pressure? Explain its importance.	(09) cample.
	Explain the transportation of Fe-Ferritin.	(12)
1. 2. 3. 4. 5.		(10)
Q4 b) 1. 2. 3. 4. 5. 6.	Attempt any three of the following:  Write a detail note on transportation and storage of Nitrogen in human body.  Write a note on transportation of drug throughout the human body.  Discuss on deficiency of chlorine.  Write a role of K* and Na* in plant.  Types of epistasis  Explain allelic gene interaction.	(15)