PARUL UNIVERSITY

PARUL INSTITUTE OF APPLIED SCIENCES MID SEMESTER INTERNAL EXAMINATION, APRIL 2017

B. Sc. Semester IV

Biotechnology

Paper Code: 11103203 **Animal Physiology**

	18/04/201		Time: 12.30 p.m. to 02.00 p.m.					
	num Mar	·ks: 40						
	ctions:							
1.	_	tions are compulsory and optic	ns are	given in first and second questio	n			
_	only.							
2.	Number	s to the right of question indica	ite the i	marks of respective question.				
Q. 1	Atten	(08)						
	i.							
	ii.	Describe the digestion and absorption of proteins and lipids.						
Q. 2		Attempt any three questions of the following.						
	i.							
	ii.	What is saliva and why is it needed? Explain the enzymatic regulation for saliva.						
	iii.	Using diagrams state the structure and functions of the various						
	:	formed elements in the blood.						
	iv.	Write a short note on fibrinolytic pathway.						
0.2		v. How is carbohydrate digested?						
Q. 3	i.	as directed. Attempt all five questions.						
	i. ii.	Define: coronary circulation						
	ii. iii.	Give an example of one way digestion and two way digestion.						
	iv.	Draw a neuron. Draw an animal cell.						
Q. 4		v. Define: Hygroscopy. Give an example. Write correct option in your answer sheet for following 15 multiple (15)						
Ų. 1		-	icct 101 1	ionowing 13 multiple (13)				
MCQ 1		choice questions. Cell is the						
MCQ I	(A)		(B)					
		functional unit of life		site of biological activity				
	(C)	basic building block of an organism	(D)	all of the above				
MCQ 2	2 The	-						
weg 2	(A)	50s and 40s	(B)	50s and 60s				
	(C)		(D)	50s and 70s				
MCQ 3	` ′							
	(A)	acid	(B)	base				
	(C)	secretin	(D)	mucus				
MCQ 4								
	(A)	it gives structure to the heart	— (B)	it creates blockage in the heart				
	(C)	-	(D)	it has no function				
	` ′	atria when ventricles contract						

MCQ 5	Hematocrit is the percentage		in whole				
	(A)	RBC; blood	(B)	RBC; plasma			
	(C)	WBC; blood	(D)	WBC; serum			
MCQ 6	Function of the Pericardium						
	(A)	Protects and anchors the heart	(B)	Prevents overfilling of the heart			
				with blood			
	(C)	Allows for the heart to work	(D)	all of the above			
		in a relatively friction-free					
		environment					
MCQ 7	Cardiac muscle is						
	(A)	striated	(B)	interconnected			
	(C)	branched	(D)	all of the above			
MCQ8	pH of gall bladder bile is						
	(A)	8.5 to 9	(B)	6.80 to 7.65			
	(C)	7.50 to 8.05	(D)	5.5 to 6			
MCQ 9	Blood group AB +ve can donate blood to						
	(A)	AB +/- ve	(B)	AB+ve			
	(C)	AB-ve	(D)	O +/- ve			
MCQ 10	Enzymatic degradation of complex food matter to simple, diffusible form is called						
	(A)	eating	(B)	digestion			
	(C)	lysis	(D)	absorption			
MCQ 11	Pinocytosis is an example of						
	(A)	diffusion	(B)	passive transport			
	(C)	osmosis	(D)	active transport			
MCQ 12	What happens in intracellular digestion?						
	(A)	Simple form of food is	(B)	Digestion occurs in digestive tract			
		absorbed through the small					
		intestine and then sent to cells					
	(C)	Lysosome + food vacuole=	(D)	Complex food eaten by higher			
		digestion		organisms			
MCQ 13	Thrombin is inhibited by						
	(A)	prothrombin	(B)	antithrombin			
	(C)	fibrin	(D)	plasmin			
MCQ 14	Tryp	sinogen is activated by					
	(A)	pepsin	(B)	CCK			
	(C)	enterokinase	(D)	renin			
MCQ 15							
	(A)	Roberta Hooke	(B)	Robert Hooke			
	(C)	Leeuwenhoek	(D)	Darwin			