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AA-124

April-2019

B.Sc., Sem.-IV

CC-205: Bio-chemistry

Time: 2:30 Hours]					ax. Marks : 70
Instru	ictio	ns:	(1) (2) (3)	All questions are compulsory. Figure on the right indicate marks. Mention clearly the option you attempt.	
1. ((a)	Expla	ain in	detail oxygen dissociation curve and the factors affecting it.	14
		7			
		(ii)	Disci	ass the transport of carbon dioxide in our body.	7
	(b)	Ansv (1) (2) (3) (4) (5) (6)	Defin What What What	following (any four) briefly. The Tidal Volume. This is Bohr's effect? This is the function of Epiglottis? This is deoxy Hemoglobin? This is the normal residual volume of lungs in a healthy person its respiratory Acidosis?	?
2.	(a)	Disci	uss the	digestion and absorption of Proteins in detail.	14
U	7		.1	OR	
		<i>(</i> 1)		following:	7
		(1) (ii)		e a note on Intestinal Putrefaction. ribe composition and functions of Bile.	7
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	(b)	Ansv	wer the following (any four) briefly.	4				
		(1)	Define Digestion.					
		(2)	Name the mechanism of absorption of sugar and amino acids in our body.					
		(3)	State the role of Enterokinase.					
		(4)	Name the hormones of Pancreatic juice.	1				
		(5)	State mechanical role of Saliva.					
		(6)	Define Intestinal Fermentation.					
3.	(a)	Desc	ribe the structure of Nephron with a labelled diagram. Discuss Glomerular					
		Filtration in Nephrons.						
			OR					
		Answer the following:						
		(i)	Discuss Tubular load and Plasma clearance in Renal tubules.	7				
		(ii)	Discuss any five abnormal constituents of urine.	7				
	(b)	Ansv	wer the following (any three) briefly.	3				
		(1)	Define GFR.					
		(2)	Name any two normal constituents of Urine.					
		(3)	What is T _{max} ?					
		(4)	What is obligatory reabsorption in Renal tubules?					
		(5)	Name two hormones which play an important role in urine formation.					
4.	(a)	Disc	uss the entire process of blood coagulation in detail.	14				
			OR					
		Ansv	wer the following:					
		(i)	Discuss briefly any seven functions of Blood.	7				
		(ii)	Draw and describe different types of WBCs.	7				
		A						
	(b)	Ansv	wer the following (any three) briefly.	3				
		(1)	Name the Plasma proteins.					
A		(2)	What is the normal count of Platelets?					
	V.	(3)	What is Haematopoiesis?					
		(4)	According to the ABO system, how many types of Blood Groups are there ?					
		(5)	Name any one physiological condition when the RBC count is high.					

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