Seat No.:	
-----------	--

## **AA-124**

## April-2019

## B.Sc., Sem.-IV

CC-205: Bio-chemistry

Time: 2:30 Hours] [Max. Marks: 70						
<b>Instructions:</b> (1) All questions are compulsory.						
		(2) Figure on the right indicate marks.				
			(3)	Mention clearly the option you attempt.		
1.	(a)	Expl	lain in	detail oxygen dissociation curve and the factors affecting it.	14	
		OR				
		Ansv				
		(i) Explain internal and external respiration.			7	
(ii)			Disc	cuss the transport of carbon dioxide in our body.	7	
	(b)	Answer the following (any <b>four</b> ) briefly.			4	
		(1)	Defi	ne Tidal Volume.		
		(2)	Wha	at is Bohr's effect?		
		(3)	Wha	at is the function of Epiglottis?		
		(4)	Wha	at is deoxy Hemoglobin ?		
		(5)	Wha	at is the normal residual volume of lungs in a healthy person?		
		(6)	Wha	at is respiratory Acidosis?		
2.	(a)	(a) Discuss the digest		e digestion and absorption of Proteins in detail.	14	
				OR		
		Ansv	wer th	e following:		
		(i)	Writ	te a note on Intestinal Putrefaction.	7	
		(ii)	Desc	cribe composition and functions of Bile.	7	
AA-124 1		P.T.O.				

	(b)	Ans	Answer the following (any <b>four</b> ) briefly.				
		(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.				
		(5)	State mechanical role of Saliva.				
		(6)	Define Intestinal Fermentation.				
3.	(a)	Des	cribe the structure of Nephron with a labelled diagram. Discuss Glomerular				
		Filtr	ration in Nephrons.	14			
			OR				
		Ans	wer the following:				
		(i)	Discuss Tubular load and Plasma clearance in Renal tubules.	7			
		(ii)	Discuss any five abnormal constituents of urine.	7			
	(b)	Ans	wer the following (any <b>three</b> ) briefly.	3			
		(1)	Define GFR.				
		(2)	Name any two normal constituents of Urine.				
		(3)	What is T <sub>max</sub> ?				
		(4)	What is obligatory reabsorption in Renal tubules?				
		(5)	Name two hormones which play an important role in urine formation.				
<b>1</b> .	(a)	Disc	cuss the entire process of blood coagulation in detail.	14			
			OR				
		Ans	wer the following:				
		(i)	Discuss briefly any seven functions of Blood.	7			
		(ii)	Draw and describe different types of WBCs.	7			
	(b)	Answer the following (any three) briefly.					
		(1)	Name the Plasma proteins.				
		(2)	What is the normal count of Platelets?				
		(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.				

AA-124 2