AK-119

April-2015

B.Sc., Sem.-IV (CBCS)

Paper – 205 : Biochemistry

(Physiology of Various Systems)

Time: 3 Hours] [Max. Mark						
Instructions: (1)			(1)	All questions carry equal marks.		
			(2)	Mention clearly the option you attempt.		
			(3)	Draw labelled diagrams wherever necessary.		
1.	(a)	Discı	ıss Oz	xygen-Hemoglobin saturation curve and the factors affecting it.	11	
	(b)	Write	e a no	te on External Respiration.	3	
				OR		
	(a)	Discu	iss the	e transport of Carbon dioxide in tissues & lungs.	10	
	(b)	Discu	ıss Re	espiratory acidosis and alkalosis.	4	
2.	(a)	Discı	ıss in	detail the digestion and absorption of Proteins in the GI tract.	8	
	(b)	Write	a bri	ef note on Fermentation.	6	
				OR		
	(a)	Discu	ıss in	detail the digestion and absorption of Carbohydrates in the GI tract.	8	
	(b)	Discu	iss the	e secretion and function of Hydrochloric acid in Stomach.	6	
3.	(a)	Discı	iss the	e abnormal constituents of Urine.	8	
	(b)	Discı	ıss ob	oligatory & facultative reabsorption of water in Renal tubules.	6	
				OR		
	(a)	Discu	ıss Tu	ıbular load, Tmax, & plasma clearance.	9	
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	(b)	Discuss the role of Aldosterone in Urine formation.	:	5				
4.	(a)	Discuss the functions of Blood.	:	8				
	(b)	Discuss the hazards of incompatible Blood transfusion.	(6				
OR								
	(a)	Write a brief note on Platelets.	,	7				
	(b)	Discuss the intrinsic and extrinsic mechanism of Blood Coagulation.	,	7				
5.	Ans	swer in brief:						
	(1)	Define tidal volume & residual volume of lungs.	,	2				
	(2)	Define Putrefaction.	,	2				
	(3)	What are Chylomicrons and their components?	,	2				
	(4)	Name the types of nephrons.	-	1				
	(5)	Draw a labelled schematic diagram of sodium-glucose symporter.	,	2				
	(6)	Draw and write the normal value of Neutrophils and Monocytes.	,	2				
	(7)	Define and write the full form of ESR.	,	2				
	(8)	Write any one factor that affects GFR.		1				

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