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## NKT/KS/17/6542

## B.Pharm. Semester—I (C.B.S.) Examination HUMAN ANATOMY AND PHYSIOLOGY—I

## Paper-3

Time : Three Hours]			[Maximum Marks: 80
	N.B.: (1) Question No. 1 is compulsory.		
		<ol><li>Solve any FOUR questions from the remaining.</li></ol>	
		(3) Draw neat labelled diagram wherever necessary.	
1.	Solve any five of the following:		
	(a)	Explain different levels of structural organization of human body.	
	(b)	Explain structure and functions of mitochondria.	
	(c)	Write in brief about various types of anaemia.	
	(d)	Explain action potential in contractile fibres of heart.	
	(e)	Write functions of erythrocytes.	
	(f)	Draw well labelled diagram showing organs of respiratory system.	
	(g)	How blood flows through heart ? Explain.	20
2.	(a)	Explain phases of somatic cell division.	10
	(b)	Write functional significance of lipids and proteins on cell membrane.	5
3.	Des	cribe subtypes, distribution and characteristics of epithelial tissues.	15
4.	(a)	Explain in detail mechanism of blood coagulation	10
	(b)	Write significance of Rh type of blood groups.	5
5.	Des	cribe in detail regulation and maintenance of blood pressure.	15
6.	(a)	How O2 and CO2 are transported in blood ? Explain.	10
	(b)	Define various respiratory volumes and vital capacity.	5
7.	Write short notes on any two:		
	(a)	Cardiac cycle	
	(b)	Nervous regulation of respiration	
	(c)	Spleen.	15

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