Neha Malhotra

R.L. Institute M: 9416974837

Class: XI

"BODY FLUIDS & CIRCULATIONS"

Max Time: 1 hr Worksheet -1 Max Marks = 80

(Based on Blood, Lymph and Circulatory Pathways)

Q.1	The percentage of water and protein in a straw colored viscous fluid, i.e. plasma is						
	a) 92%	and 8%	b) 50% each		c) 60% and 40%	d) 32% and 68%	
Q.2	The ty	pe of proteins found	d in plasma is				
	a) fibri	nogen	b) globulin		c) albumin	d) all of these	
Q.3	Serun	n differs from blood	in				
	a) lack	ing globulins	b) lacking albumins		c) lacking clotting factors	d) lacking antibodies	
Q.4	In hur	mans, RBC's are form	ned in				
	a) red	bone marrow	b) heart		c) lungs	d) yellow bone marr	
Q.5	An iro	n containing respira	tory pigment in human	bloo	od is		
	a) myo	globin	b) haemoglobin		c) heem-erythrin	d) haemocyanin	
Q.6	Leuco	cytes are colorless of	ue to				
	a) lack	of water			b) lack of haemoglobin		
	c) pres	ence of a white pigr	nent		d) presence of calcium ions		
Q.7	Lympl	hocytes (20 - 25%) a	re two major types, B a	nd T	forms. They are responsible for	•	
	a) bloc	d coagulation	b) thickness of blood		c) immune responses	d) all of the above	
Q.8	Which	n is the largest amon	g the givens types of le	ucoc	ytes?		
	a) Eosi	nophils	b) basophils		c) monocytes	d) lymphocytes	
Q.9	Which	n enzyme is responsi	ble for lysis of fibrin du	ring f	fibrinolysis?		
	a) plas	min	b) thrombokinase		c) thrombin	d) fibrin	
Q.10	Which	n of the following op	tion describes all the co	ompo	onents of human blood group?		
	a) A &	B blood group		b) A	B & O blood group		
	c) RH a	and ABO blood group)	d) R	H and AB blood group		
Q.11	Perso	n with blood group /	AB is considered as univ	versa	I recipient because he has		
;	a) Bo	oth A & B antigens o	n RBC, but no antibodi	es.			
ı	b) Bo	oth A & B antibodies	in the plasma.				
	c) N	o antigen on RBC an	d no antibodies in the p	olasm	na.		
(d) Bo	oth A & B antigens ir	n the plasma, but no an	tiboc	dies		
Q.12	A cert	ain road accident p	atient with unknown b	lood	group needs immediate blood	transfusion. His one	
	docto	r friend at once offe	rs his blood what was t	he bl	ood group of the donor?		
	a) Blo	od Group B	b) Blood group AB		c) Blood group O	d) blood Group A	
Q.13	What	will happen if a RH ⁻	person donates blood t	o a R	H ⁺ person for the first time		
	a) R	H ⁻ person will die		b)	RH ⁺ person will die		
	c) N	othing will happen t	o both	d)	RH⁻ will leave and RH⁺ will die		

Q.14	Prothrombinase is formed	d in the presence of				
	a) Ca ²⁺	b) Mg ²⁺	c) Fe ²⁺	d) Fe ³⁺		
Q.15	Exchange of gases, nutrie	nts etc. between the bloo	od and the cells takes place throug	h		
	a) RBC	b) WBC	c) interstitial fluid	d) intrastitial fluid		
Q.16	Match the following colu	mns				
	Column – I	Colu	Column – II			
	(Blood cellls)		nposition)	<u></u>		
	A. erythrocytes	1.	6000 – 8000 mm ⁻³ of blood			
	B. leucocytes		150000 – 350000 mm ⁻³ of blood			
	C. thrombocytes	3.	5 – 5.5 million mm ⁻³ of blood			
	a) A – 1, B – 2, C – 3	b) A - 2, B - 3 , C - 1			
	c) $A - 3$, $B - 1$, $C - 2$	d) A - 2, B - 1, C - 3			
Q.17	Match the following colu	mns				
	Column – I	Co	olumn – II			
	(Functions)	(Se	egments of DNA)			
	A. neutrophils	1	. 20-25% of WBCs			
	B. basophils	2	. 2-3% of WBCs			
	C. monocytes	3	. 6-8% of WBCs			
	D. eosinophils	4	. 0.5-1% of WBCs			
	E. lymphocytes	5	. 60-65% of WBCs			
	.) 4 5 5 4 6 3 5 3	F 4	\			
	a) A – 5, B – 4, C – 3, D – 2	•) A – 5, B – 4, C – 2, D – 3, E – 1			
	c) A – 1, B – 2, C – 3, D – 4,	, E – 5 d) A – 5, B – 2, C – 4, D – 3, E – 1			
Q.18	The number of chambers	in the muscular heart of f	fishes amphibians and birds is			
	a) 2, 2, 4	b) 2, 3, 4	c) 2, 4, 4	d) 3, 3, 4		
Q.19	All reptiles have a three c	hambered heart except				
	a) snake	b) crocodile	c) lizard	d) Both (b) and (c)		
Q.20	Two separate circulatory	pathways, i.e. Double circ	culation is found in			
;	a) reptiles and birds					
ı	o) mammals only					

c) crocodile, birds and mammals

d) reptiles and mammals

Neha Malhotra

R.L. Institute M: 9416974837

Class: XI

"BODY FLUIDS & CIRCULATIONS"

Max Time: 1 hr Worksheet – 2 Max Marks = 80

	(Based on H	<u>luman Circulato</u>	<u>ory Syste</u>	<u>m , Cardiac</u>	<u>Cycle , Disorders)</u>				
Q.1	b) blood from the pulmo	nary artery and vena cav nary vein and vena cava	to flow into t	he left and right ve	entricles, respectively				
		nary vein and vena cava		_					
ე.2		onary vein and vena cav	a to flow into	the left and right a	atrium, respectively				
۷.۷	Action potential generated by SAN a) Stimulates atrial contraction, i.e. Atrial systole								
	b) increase blood flow into ventricles								
	c) stimulates AVN	,							
	d) all of the above								
Q.3	Duration of cardiac cycle is								
	a) 0.6 second	b) 0.7 second	c)	0.8 second	d) 0.9 second				
Q.4	During each cardiac cycle, p	rominent sounds are pro	oduced which	can be easily hear	d through stethoscope. They are				
	a) lubb	b) dupp	c)	tick	d) both (a) and (b)				
Ղ.5	The first heart sound 'Lubb'	The first heart sound 'Lubb' occurs in which phase of cardiac cycle							
	a) isometric relaxation		b)	atrial diastole					
	c) ventricular systole		d)	ventricular diasto	ole				
2.6	ECG is a graphical representation of								
	a) rate of heartbeat			volume of blood					
	c) ventricular contraction			electrical activitie					
ე.7	To obtain standard ECG, the patient is connected to the machine with three electrical leads. These three electrical lead are connect it to								
	a) chest and each wrist		b)	each ankle and w	rist				
	c) thigh and chest ankle		d)	each wrist and let	ft ankle				
2.8	The beginning of ventricular		n ECG through	1					
	a) P&Q wave	b) QRS wave	c)	P&S wave	d) S&T wave				
Q.9	Match the following column	S							
	Column I			Column II					
	(ECG wave)		(Featu						
	A. P-wave		1.	Depolarisation of					
	B. QRS complex		2.	Repolarisation of v					
	C. T-wave		3.	Coronary ischemia					
	D. Reduction in the s	size of T-wave	4.	Depolarisation of	atria				
	\				5.4				
	a) A – 4, B – 1, C – 3, D – 2			A - 2, $B - 3$, $C - 1$,				
	c) $A-2$, $B-1$, $C-3$, $D-4$		d)	A - 4, $B - 1$, $C - 2$, U – 3				

Q.10 Match the following colur

	Column I	Column II
	(Cardiac abnormality)	(Features)
Α.	Tachycardia	Increased heart rate
В.	Bradycardia	2. Irregular heartbeat
C.	Arrythmia	Decreased heart rate
D.	Arteriosclerosis	4. Hardening of lose of elasticity of artries

a) A-1, B-2, C-3, D-4

c) A-1, B-3, C-2, D-4

b) A-4, B-3, C-2, D-1

d) A-1, B-4, C-3, D-2

Q.11	Neutral center in medulla oblongata car	n moderate the cardiac	fun	ction through			
	a) ANS (Automatic nervous system)						
	b) sympathetic nervous system						
	c) parasympathetic nervous system						
	d) somatic nervous system						
Q.12	Neural signals through the sympathetic nerves (ANS) can increase the rate of heartbeat by						
	 a) increasing heart output 						
	b) increasing the strength of ventrice	ular contraction					
	c) both (a) and (b)						
	d) increasing the contraction of atric	ım					
Q.13	Heartbeat increases by						
	a) adrenal hormones			sympathetic nerves			
	c) Both (a) and (b)		d)	parasympathetic nerve			
Q.14	Systolic or pumping pressure in a norma			00 (11			
	a) 70 mm of Hg			80 mm of Hg			
0.45	c) 90 mm of Hg		a)	120 mm of Hg			
Q.15	Which one indicates hypertension or hig		٠,١	120/00		-1) 440/00	
0.16	a) 120/80 b) 110,		C)	130/80		d) 140/90	
Q.16	Atherosclerosis is caused by deposition		1. 1	Control of the Lorenze L			
	a) calcium			fat and cholesterol			
0.17	c) deposition of fibrous tissue		a)	all of the above			
Q.17	The main symptom of congestive heart	ranure is					
	a) Hypertensionb) impared heart value						
	b) impared heart valuec) congestion in lungs						
	d) blockage in pulmonary artery						
Q.18	Which of the following events occurs du	ring joint diastole					
Q.18	I. All four chambers are in relaxed sta						
	II. Tricuspid and bicuspid valves are o						
	III. Semilunar valves are closed.	yen.					
	IV. Blood from the pulmonary veins a	nd vena cava flows into	th	e left and right ventricle	ا 5د	respectively through the left	
	and right Atria.	Ta vena cava novo meo		e lett und right ventriole	, .	respectively through the left	
	The correct option containing correct ch	noices is.					
	a) Only I b) Only		c)	II and IV		d) I, II, III and IV	
Q.19	Which of the following statements are of		-,			-, , ,	
•	Closure of atrioventricular valves produces 'dupp' sound.						
	II. A cardiac cycle consists of asystole and a diastole of both Atria and ventricles.						
	III. The average number of times, a normal heart beats in one minute is 72.						
	IV. Changing the blood volume in all the chambers of the heart occurs during the cardiac cycle.						
	The option with correct statement is.						
	a) I, II and III b) II, III	and IV	c)	I, II and IV		d) I, III and IV	
Q.21	When to atria contract simultaneously a	and result in the blood p	um	ping into ventricles, this	s is	called	
	a) atrial diastole		b)	atrial systole			
	c) ventricular diastole		d)	ventricular systole			
Q.22	Choose the incorrect pair						
	a) Dupp -> opening of semilunar val	ve					
	b) Lubb -> Sharp closure of AV valve						
	c) Initiation of heartbeat -> AV noda	l tissue of heartbeat					
	d) Pulmonary artery -> Deoxygenate						
Q.23	ECG depicts the depolarization and repolarization processes during the cardiac cycle. In the ECG of a normal/health						
	individual, one of the following waves is	·					
	a) Depolarization of atrial			Repolarization of atrial			
	c) Depolarization of ventricules			Repolarization of ventr	icul	les	
Q.24	The second heart sound (dupp) is associ						
0.5-				bicuspid valve	d)	tricuspid and bicuspid valve	
Q.25	The first heart sound 'Lubb' occurs in w				٦١,		
	a) isometric relaxation b) atria	al diastole	C)	ventricular systole	u)	ventricular diastole	