Chapter 18

FACT/DEFINITION TYPE QUESTIONS

- 1. Lymph differs from blood in
 - (a) absence of RBC (b) absence of WBC
 - (c) excess of water
- (d) absence of protein
- 2. Lymph is modified blood that contains
 - (a) RBC and WBC
 - (b) RBC, WBC and protein
 - (c) WBC and all protein
 - (d) all contents of blood except RBC and certain protein
- 3. In blood
 - (a) WBCs are more than RBCs
 - (b) RBCs are more than WBCs
 - (c) RBCs are less than platelets
 - (d) Platelets are less than WBCs
- **4.** Which one engulfs pathogens rapidly?
 - (a) Acidophils
- (b) Monocytes
- (c) Basophils
- (d) Neutrophils
- **5.** What is true about leucocytes ?
 - (a) Their sudden fall in number is indication of blood cancer
 - (b) These are produced in thymus
 - (c) These are enucleated
 - (d) These can squeeze out through the capillary walls
- **6.** Which of the following is considered as the soldiers of body?
 - (a) Lungs
- (b) Capillaries
- (c) Red blood cells
- (d) White blood cells
- 7. Which of the following is responsible for ABO grouping?
 - (a) Presence or absence of clotting factors.
 - (b) Compatibility of blood groups during blood transfusion.
 - (c) Presence or absence of surface antigens (A and B) on WBCs
 - (d) Presence or absence of two surface antigens (A and B) on the RBCs.
- **8.** What is correct for blood group 'O'?
 - (a) No antigens but both a and b antibodies are present
 - (b) A antigen and b antibody
 - (c) Antigen and antibody both absent
 - (d) A and B antigens and a, b antibodies

- Rh factor is named after
 - (a) monkey
- (b) Drosophila
- (c) rat
- (d) man
- **10.** When the blood of a foetus is agglutinated by its mother's Rh antibodies, then which of the following condition arises as a severe anaemia?
 - (a) Immunization
 - (b) Ectopic pregnancy
 - (c) Erythroblastosis foetalis
 - (d) Both (b) and (c)
- 11. plays an important role in blood clotting.
 - (a) Sodium
- (b) Chlorine
- (c) Calcium
- (d) Potassium
- **12.** Which of the following cations is required for the conversion of prothrombin into active thrombin by thromboplastin?
 - (a) Cu^{2+} (b)
- Fe³⁺
- (c) Fe^{2+} (d)
- Ca^{2+}
- 13. Clotting of blood is to
 - (a) seal up wounds and prevent blood loss.
 - (b) slow down the movement of blood inside the blood vessels.
 - (c) trap oxygen inside the blood so that it can be carried around more easily.
 - (d) trap harmful germs inside the blood and prevent them from harming the body.
- **14.** Fish has ___(i)___ and ___(ii)___ circulatory system.
 - (a) (i)- open, (ii)- single
 - (b) (i)- open, (ii)- double
 - (c) (i)-closed, (ii)-single
 - (d) (i)-closed, (ii)-double
- 15. Open type blood vascular system is found in
 - (a) earthworm
- (b) lizard
- (c) cockroach
- (d) toad
- **16.** Which of the following set of animals has an incomplete double circulation system ?
 - (a) Frog and crocodile (b) Shark and whale
 - (c) Lizard and pigeon (d) Toad and lizard

29. Sinu-atrial node in human heart is embedded in the wall of

Body Fluids and Circulation

17. Heart is covered by

	(a)	peritoneum	(b)	pleural membrane		(a)	sinus-venosus		
	(c)	pericardium	(d)	visceral membrane		(b)	interatrial septum		
18.	Noc	lal tissue/musculature i	in huı	nan heart has		(c)	right atrium		
	(a)	the ability to generat	e acti	on potential due to any		(d)	atrioventricular septur		
		external stimuli.			30.	Wh	ich term does not apply		
	(b)	two patches, one in at	rium	and other in ventricle.		(a)	Pacemaker	(b)	Four chambered
	(c)	-	roug	hout the ventricular		(c)	Mitral valve	(d)	Neurogenic
		musculature.			31.		at is the function of va		
		atrioventricular node,		•			To prevent blood from		•
19.				enated blood, opens into		(b)	To push blood into the		
	(a)	left auricle	(b)	right auricle		(c)	To push blood into th		
	` ′	left ventricle	(d)	right ventricle	32.	(d)	_		od into the left ventricle. Id directly reduce blood
20.		pacemaker of the hum			34.		v to the	wou	id directly reduce blood
	` ′	SA node	(b)	tricuspid valve		(a)	heart	(b)	liver
	` '	AV node	(d)	SV node		(c)	lungs	(d)	brain
21.			ing l	blood vessel is without	33.		nammals the blood from		
		es?		D.I.			systemic aorta		precavals
		Artery	(b)	Pulmonary aorta			truncus arteriosus	(d)	pulmonary aorta
	` '	Vein	(d)	Systemic aorta	34.	The	heart sound 'dupp' is		•
22.		itraction of the ventric	cie in	the heart begins by the		(a)	tricuspid valve is ope	-	
			(b)	AV node		(b)	mitral valve is opened		
	(a) (c)	Purkinje fibres chordae tendinae	(b) (d)	SA node		(c)	mitral valve is closed.		
23.	` '		. ,	tricles on the right side is		(d)	semi-lunar valves at t	he ba	se of aorta get closed.
23.		rded by which valve?	o ven	ifficies off the right side is	35.		first heart sound is		
	-	Tricuspid	(b)	Bicuspid		(a)	'LUBB' sound produc		_
	(c)	Semilunar	(d)	Mitral valve		(b)	'DUP' sound produce		-
24.	` '	uspid valve allows bloc				(c)	_		the beginning of systole.
	(a) right auricle to left ventricle.			26	(d)	_		he beginning of systole.	
	(b) right auricle to right ventricle.			36.			llow1	ng valves makes louder	
	(c)	left auricle to left vent				(a)	nd of heart beat? Mitral valve	(b)	Seminular valve
	` '	post caval to heart.				(a) (c)	Auriculo-ventricular v	` ′	Schillular varve
25.		cuspid' term is applied	to			` '	Tricuspid valve	varve	
		a valve in heart and a		of pelvic girdle.	37.		diac cycle in man takes	abou	t
		a muscle in upper arm					0.5 seconds		
	(c)	a valve in heart and to				(c)	1.2 seconds	(d)	0.8 seconds
	(d)	a valve in heart.			38.	The	pattern of contraction	and r	elaxation of the heart is
26.	'Bu	ndle of His' is a part of	of wh	ich one of the following		refe	rred to as		
		ans in humans?		<i>y</i>		(a)	blood pressure	(b)	arterial flow
	(a)	Brain	(b)	Heart		(c)	blood flow	(d)	cardiac cycle
	(c)	Kidney	(d)	Pancreas	39.		wave of ECG occurs be		
27.		ich of the following ha	` ′			(a)	onset of ventricular co		ction.
	(a)	Right ventricle	(b)	Left ventricle		(b)	end of arterial contrac		ion
	(c)	Right auricle	(d)	Left auricle		(c) (d)	beginning of atrial connone of the above.	III act	IOII.
28.	` ′	A four-chambered heart is found in			40.	` '	S is related to		
	(a) mammals only			70.	(a)	ventricular contraction	n		
	(b)	humans only				(b)	auricular contraction		
	(c)	all vertebrates				(c)	cardiac cycle		
	(d)	some reptiles, all birds	s and 1	nammals		(d)	auricular relaxation		
	\-/	r, 011 011		** **		(-7			

41. The largest artery in the body is STATEMENT TYPE QUESTIONS (a) aorta precaval pulmonary artery (c) vena cava (d) **53. 42.** Pulmonary artery arises from (a) right atrium (b) left atrium wrist and to the left ankle). (c) right ventricle (d) left ventricle 43. Which circulation provides nutrients and oxygen to cardiac muscle tissue? (a) Pulmonary circulation (b) Systemic circulation blood circulatory system (c) Lymphatic circulation (d) Coronary circulation compared to veins. **44.** Which structures are directly involved in the pulmonary circulation? circulation to the brain is reduced. (a) Right atrium, aorta and left ventricle. (b) Left ventricle, aorta and inferior vena cava. (c) Superior vena cava, right atrium and left ventricle. (d) Right ventricle, pulmonary arteries and left atrium. Which structures are directly involved in the "systemic circulation"? (a) Superior vena cava, right ventricle and left ventricle.

(c) Left ventricle, aorta and inferior vena cava. (d) Right atrium, pulmonary trunk and left ventricle.

(b) Right ventricle, pulmonary arteries and left atrium.

- Which of the following carries oxygenated blood?
 - (a) Renal vein
- (b) Hepatic portal vein
- (c) Hepatic vein
- (d) Pulmonary vein
- **47.** Which of the following parts of heart possess semilunar valves?
 - (i) Aorta
- Vena cava (ii)
- (iii) Pulmonary artery
- (iv) Pulmonary vein
- (a) (i) and (iii)
- (i), (ii) and (iii)
- (c) (ii) and (iii)
- (d) (i), (iii) and (iv)
- **48.** In adult man, normal BP is
 - (a) 100/80 mm Hg
- 120/80 mm Hg (b)
- (c) 100/120 mm Hg
- $80/120 \, mm \, Hg$
- **49.** Pulse beat is measured from
 - (a) capillaries
- (b) arteries
- (c) veins
- (d) nerves
- **50.** Coronary artery disease (CAD) is often referred to as
 - (a) heart failure
- cardiac arrest (b)
- (c) atherosclerosis
- (d) angina
- **51.** Hardening of the arteries due to deposition of cholesterol is called
 - (a) thrombosis
- atherosclerosis
- (c) rhinitis
- (d) angina
- **52.** In arteriosclerosis
 - (a) arterial walls become very thin and weak so that the blood oozes out of the walls.
 - (b) sex linked heredity is involved.
 - (c) blood coagulates even in the arteries.
 - (d) arterial walls become inelastic and thickened.

- Mark the incorrect statement regarding normal ECG.
 - (a) Patient is connected to 3 electrical leads (one to each
 - (b) 'T' wave represents atrial repolarization.
 - (c) Q marks the beginning of ventricular systole.
 - (d) R represents ventricular depolarization.
- Given below are four statements (a-d) regarding human
 - Arteries are thick-walled and have narrow lumen as
 - (ii) Angina is acute chest pain when the blood
 - (iii) Persons with blood group AB can donate blood to any person with any blood group under ABO system.
 - (iv) Calcium ions play a very important role in blood

Which two of the above statements are correct?

- (a) (i) & (iv)
- (b) (i) & (ii)
- (c) (ii) & (iii)
- (d) (iii) & (iv)
- 55. What is true about RBCs in humans?
 - (a) They carry about 20-25 per cent of CO_2 .
 - (b) They transport 99.5 per cent of O_2 .
 - (c) They transport about 80 per cent oxygen only and the rest 20 per cent of it is transported in dissolved state in blood plasma.
 - (d) They do not carry CO₂ at all.
- Find out the incorrect statement from the following.
 - (a) Veins are typically larger in diameter than arteries.
 - (b) Because of their small size, capillaries contain blood that is moving more quickly than in other parts of the circulatory system.
 - (c) The walls of arteries are elastic, enabling them to stretch and shrink during changes in blood pressure.
 - (d) Veins contain more blood than any other part of the circulatory system.
- Which one of the following statements is correct regarding blood pressure?
 - (a) 190/110 mmHg may harm vital organs like brain and
 - (b) 130/90 mmHg is considered high and requires treatment.
 - (c) 120/80 mmHg is considered an ideal blood pressure.
 - (d) 105/50 mmHg makes one very active.
- Cardiac output is/are
 - (i) Product of heart rate and stroke volume.
 - (ii) Product of auricular and ventricular volume.
 - (iii) A process in which blood pumped in one minute.

Which of the above statements is true?

- (a) Only (i)
- (b) Only(ii)
- (c) Both (i) and (ii)
- (d) Both (i) and (iii)
- **59.** Which of the following statements is/are correct for blood group?
 - (i) Blood group O is universal donor.
 - (ii) Blood group AB is universal acceptor.
 - (iii) Blood group A contains antigen B and anti-A antibodies.
 - (iv) Blood group B contains antigen B and anti-A antibodies.
 - (a) Only (i) and (ii).
- (b) Only (i), (ii) and (iii).
- (c) Only (i), (ii) and (iv).
- (d) Only (i), (iii) and (iv).
- **60.** Which of the following statements is correct regarding joint diastole?
 - (a) Both atria relax but ventricles contract.
 - (b) Both ventricles relax but atria contract.
 - (c) Both semilunar valves are open.
 - (d) Tricuspid and bicuspid valves are open.
- **61.** Which of the following statements is correct regarding pulmonary artery?
 - (a) It carries deoxygenated blood from heart to lungs.
 - (b) It carries deoxygenated blood from lungs to heart.
 - (c) It carries oxygenated blood from heart to lungs.
 - (d) It carries oxygenated blood from lungs to heart.
- **62.** Which one of the statement is correct with reference to the circulation of blood in a mammal?
 - (a) Left auricle receives oxygenated blood.
 - (b) Pulmonary artery carries oxygenated blood to the lungs.
 - (c) Blood from the lungs is returned to heart through 2-veins, one from each lung.
 - (d) None of the above.
- **63.** Which of the following statement is correct regarding lymph?
 - (a) It transports oxygen to brain.
 - (b) It transport CO₂ to lungs.
 - (c) It returns interstitial fluid to blood.
 - (d) It returns RBCs and WBCs to lymph nodes.
- **64.** Which of the following statement best defines artery?
 - (a) It carries blood from one visceral organ to another visceral organ.
 - (b) It carries oxygenated blood to the different organs.
 - (c) It carries blood away from the heart to different organs.
 - (d) It breaks up into capillaries which reunite to form a vein.
- **65.** Which of the following statement is correct regarding blood cells?
 - (a) A healthy individual has 12 16 gms of haemoglobin in every 200ml of blood.

- (b) RBC as an average life span of 120 days after which they are destroyed in the spleen.
- (c) Neutrophils and basophils are phagocytic cells which destroy foreign organisms entering the body.
- (d) A reduction in the number of WBC leads to clotting disorders which will lead to excessive loss of blood from the body.

ASSERTION/REASON TYPE QUESTIONS

In the following questions, a statement of Assertion is followed by a statement of Reason.

- (a) If both Assertion and Reason are true and the Reason is the correct explanation of the Assertion.
- (b) If both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion.
- (c) If Assertion is true but Reason is false.
- (d) If both Assertion and Reason are false.
- **66. Assertion**: SAN is called the pacemaker of heart.

Reason: The SAN can generate the maximum number of action potentials and is responsible for initiating and maintaining the rhythmic contractile activity of the heart.

67. Assertion : Lub is a heart sound which is produced during each cardiac cycle.

Reason: It is associated with the closure of the tricuspid and bicuspid valves.

68. Assertion : Saline water is not given to patients with hypertension.

Reason: Saline water can cause vomiting and may drop blood pressure suddenly causing cardiac arrest.

69. Assertion : Blood pressure is arterial blood pressure.

Reason: Blood pressure is measured by sphygmomanometer.

70. Assertion: WBCs accumulate at the site of wounds by diapedesis.

Reason: It is squeezing of leucocytes from endothelium.

- **71. Assertion :** Blood coagulates in uninjured blood vessels. **Reason :** Uninjured blood vessels release an anticoagulant heparin.
- **72. Assertion :** Prothrombinase enzyme acts as antiheparin. **Reason :** Heparin prevents coagulation of blood in blood vessels.
- 73. Assertion: When there is a fall in the blood pressure due to loss of blood volume, this is compensated by vasoconstriction of veins.

Reason: Veins hold the extra amount of blood which can be shifted to the arteries as required.

MATCHING TYPE QUESTIONS

- **74.** In which of the following options the types of heart is correctly matched to their respective group of animals?
 - (a) Two chambered heart- Fishes and amphibians
 - (b) Three chambered heart- Amphibians and birds
 - (c) Four chambered heart- Birds and mammals
 - (d) Three chambered heart- Reptiles and mammals

- **75.** Which one of the following is a matching pair?
 - (a) Lubb-Sharp closure of AV valves at the beginning of ventricular systole.
 - (b) Dup-Sudden opening of semilunar valves at the beginning of ventricular diastole.
 - (c) Pulsation of the radial artery-Valves in the blood vessels.
 - (d) Purkinje fibres-Initiation of the heart beat.
- **76.** In a standard ECG, which one of the following alphabets is the correct representation of the respective activity of the human heart?
 - (a) P-Depolarization of the atria
 - (b) R-Repolarization of ventricles
 - (c) S-Start of systole
 - (d) T-End of diastole
- 77. Match the following descriptions (given in column-II) of each type of blood cell to their names (given in column-I).

	Column-I		Column-II
	(Blood cell)		(Description)
A.	Erythrocyte	I.	Most abundant white blood cell, and the main phagocytic cell of the blood.
B.	Eosinophil	II.	Least abundant white blood cell; releases histamine granules.
C.	Lymphocyte	III.	Resist infections and are associated with allergic reactions.
D.	Neutrophil	IV.	Blood cell that contains haemoglobin and transports oxygen.
E	Basophil	V.	Specialized antibody- producing white blood cells.

- (a) A-IV; B-III; C-V; D-I; E-II
- (b) A-I; B-II, C-III; D-IV; E-V
- (c) A-II; B-III; C-I; D-V; E-IV
- (d) A-IV; B-I; C-II; D-III; E-V
- **78.** Which of the following term (column-I) is correctly matched with its functions (column-II)?

	Column-I	Column-II
	(Term)	(Functions)
(a)	Plasma	Straw coloured fluid that consists of suspended blood cells
(b)	Heart	Site where exchange of nutrients and gases occur
(c)	Capillary	A red colour fluid that provides food to the cells
(d)	Blood	Pumping station of the body

79. Match each area of the heart (column-I) with the structure (column-II) from which it receives blood.

(**************************************					
Column-I			Column-II		
(Area of heart)			(Receives blood from)		
A.	Right atrium	I.	Left atrium		
B.	Right ventricle	II.	Vena cavae		
C.	Left atrium	Ш.	Right atrium		
D.	Left ventricle	IV.	Pulmonary veins		
(a) $A - II; B - III; C - IV; D - I$					
(b) $A-I; B-II; C-III; D-IV$					
(c) $A-IV; B-I; C-II; D-III$					
(d) $A - III; B - IV; C - I; D - II$					
3.6	March the colours Total colours II and the conditions				

80. Match the column I with column II and choose the correct answer from the option given below.

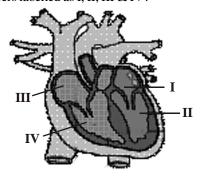
answer from the option given below.						
Column-I			Column -II			
A.	Cardiac cycle	I.	72/min			
B.	Plasma	II.	120/80 mmHg			
C.	Systolic/Diastolic	III.	0.8 seconds			
D.	Haemoglobin	IV.	12-16 gms in every 100 ml			
			of blood			
E.	Heart beat	V.	55 % of the blood			
(a)	A-I;B-II;C-III;D-IV;E-V					
(b)	A - III; B - V; C - II; D - IV; E - I					
(c)	A - III; B - I; C - V; D - II; E - IV					
(d)	A - V; B - IV; C - III	; D-	- I; E – II			

DIAGRAM TYPE QUESTIONS

81. Given below is the ECG of a normal human. Which one of its components is correctly interpreted?

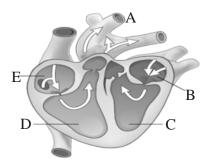


- (a) Peak P and Peak R together Systolic and diastolic blood pressures
- (b) Peak P Initiation of left atrial contraction only
- (c) Complex QRS One complete pulse
- (d) Peak T Initiation of total cardiac contraction
- **82.** The given diagram represents human heart with four chambers labelled as I, II, III & IV?



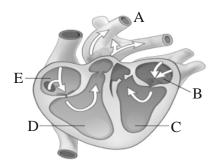
Which labelled structure receives carbon dioxide rich blood from the body?

- (a) I- Left atrium
- (b) II- Left ventricle
- (c) III- Right atrium
- (d) IV- Right ventricle
- **83.** In the given diagram of human heart the mitral valve is located between which two parts of the heart?

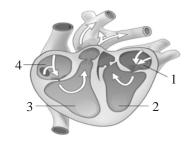


- (a) D and E
- (b) B and C
- (c) D and C
- (d) E and B
- **84.** In the human heart, blood from the lungs enters the heart through the left atrium, pumps into the left ventricle, out the aorta and through the body, and then returns into the right atrium, pumps into the right ventricle and exits to the lungs.

Using the diagram, which set of letters (A, B, C, D, E) correctly represents the process describe above?

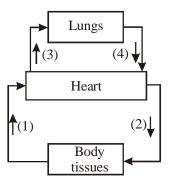


- (a) E, D, A, B, C
- (b) B, C, A, E, D
- (c) C, D, A, B, E
- (d) D, C, A, E, B
- **85.** Refer the given figure of human heart and identify the chamber (marked as 1, 2, 3 & 4) which receives most of the blood returning from the brain.



- (a) I- Left atrium
- (b) II- Left ventricle
- (c) III- Right ventricle
- (d) IV-Right atrium

86. The given figure represents the pathway of blood throughout the body.



Identify the correct match of marked number 1, 2, 3 and 4.

- (a) 1-Artery
- (b) 2-Pulmonary vein
- (c) 3- Pulmonary artery (d)
 - (d) 4- Vein
- **87.** The given figure represents diagrammatic presentation of an ECG Each peak in the ECG is identified with a letter from P to T that corresponds to a specific electrical activity of the heart.



Which of the following letter shows the incorrect activity of heart?

- (a) QRS Depolarization of the ventricles
- (b) R wave Marks the beginning of the systole.
- (c) P-Electrical excitation (or depolarization) of the atria
- (d) T wave Return of the ventricles from excited to normal state (repolarization).

CRITICAL THINKING TYPE QUESTIONS

- **88.** What is true about leucocytes?
 - (a) Their sudden fall in number is indication of blood cancer.
 - (b) These are produced in thymus.
 - (c) These are enucleated.
 - (d) These can squeeze out through the capillary walls.
- **89.** Which is the correct route through which pulse making impulse travels in the heart?
 - (a) SA node \rightarrow AV node \rightarrow Bundle of His \rightarrow Purkinje fibres
 - (b) AV node \rightarrow Bundle of His \rightarrow SA node \rightarrow Purkinje fibres \rightarrow heart muscles
 - (c) AV node → SA node → Purkinje fibres → Bundle of His → heart muscles
 - (d) SA node \rightarrow Purkinje fibres \rightarrow Bundle of His \rightarrow AV node \rightarrow heart muscles

ventricular diastole.

auricular diastole.

auricular systole.

(c) Auricular depolarization, ventricular repolarization,

(d) Auricular depolarizaion, ventricular diastole,

7			Diology
90.	If nerves of heart are cut, then heart will	99.	If a person is loosing blood continuously due to injury
	(a) beat rhythmically (b) stop		then what will be the effect on his pulse and BP initially?
	(c) beat arhythmically (d) shrink		(a) Pulse and BP both will fall.
91.	Which one of the following will be the cardiac output (in		(b) Pulse will fall and BP will rise.
	litres per minute) of a heart that has a stroke volume of		(c) Both pulse and BP will rise.
	0.07 litres and is beating at a rate of 90 per minute?		(d) Pulse will rise and BP will fall.
	(a) 63.30 (b) 63.00	100.	During systemic circulation, blood leaves the(i)
02	(c) 00.63 (d) 06.30		and(ii)
92.	The blood returning to the heart through pulmonary vein has more		(a) (i)-left ventricle, (ii)-goes directly to the aorta
	(a) RBC (b) haemoglobin		(b) (i)- right ventricle, (ii)- goes directly to the aorta
	(c) oxygen (d) nutrient		(c) (i)- right ventricle, (ii)- moves to the lungs.
93.	First heart sound (LUBB) coincides with which wave of		(d) (i)- left ventricle, (ii)- moves to the lungs
,,,	ECG?	101.	In normal human blood pressure, what does the "120'
	(a) R-wave (b) T-wave		represent?
	(c) P-wave (d) Q-wave		(a) The maximum pressure that can be sustained by the
94.	What happens when the pacemaker becomes non-		arteries before bursting.
	functional?		(b) The lowest pressure in the arteries that will keep
	(a) Only the auricles will contract rhythmically.		someone from fainting when they stand up.
	(b) The cardiac muslces do not contract in a coordinated		(c) The highest ideal arterial pressure for someone at
	manner rhythmically.		rest.
	(c) Only ventricles will contract rhythmically.		(d) The pressure in the veins.
	(d) Auricles and ventricles contract simultaneously.	102.	If a person had two-chambered heart (one atrium, and one ventricle) with the vena cava entering the atrium and
95.	Maximum amount of oxygen is lost from the blood in the		the aorta leaving the ventricle then which of the following
	(a) capillaries surrounding the tissue cells.		statement would be correct?
	(b) arteries of the body.		(a) No oxygen would reach the cells.
	(c) capillaries surrounding the alveoli.		(b) No blood would reach the head and neck.
	(d) left auricle of the heart.		(c) The blood would be unable to carry food to the cells.
96.	A drop of each of the following, is placed separately on		(d) There would be no blood circulation.
	four slides. Which of them will not coagulate?	103.	Sinus venosus is/are present in which of the following
	(a) Whole blood from pulmonary vein	100.	animals?
	(b) Blood plasma		(i) Fishes (ii) Amphibians
	(c) Blood serum		(iii) Reptiles (iv) Birds
	(d) Sample from the thoracic duct of lymphatic system		(v) Mammals
97.	If due to some injury, the chordae tendinae of the tricuspid		(a) (i) only (b) (i) and (iv) only
	valve of the human heart is partially non-functional, what		(c) (i), (ii) and (iii) (d) (i), (iii) and (iv)
	will be the immediate effect?	104.	In order for the blood to flow from right ventricle to left
	(a) The flow of blood into the pulmonary artery will be reduced.		ventricle in mammalian heart, it must flow through
			I. Right ventricle II. Pulmonary veins
	(b) The flow of blood into the aorta will be slowed down.		III. Left atrium IV. Lungs
	(c) The 'pacemaker' will stop working.		V. Pulmonary arteries
	(d) The blood will tend to flow back into the left atrium.		(a) I-V-IV-II-III (b) I-II-III-IV-V
98.	Which of the following set of events can occur		(c) III-V-I-II-IV (d) III-II-I-IV-V
	simultaneously?	105.	Which of the following is not correct for blood pressure?
	(a) Auricular depolarization, ventricular depolarization,		(i) It is not affected by atherosclerosis.
	auricular systole.(b) Ventricular depolarization, auricular systole,		(ii) It is typically lower in veins than in arteries.
	(b) Ventricular depolarization, auricular systole,		• • • • • • • • • • • • • • • • • • • •

(iii) Diastolic pressure is higher than systolic pressure.

(iv) It is usually refers to as venous pressure of the

(b) (i),(ii) & (iii)

(d) (i), (iii) & (iv)

systemic circulation.

(a) (i) & (iii)

(c) (ii) & (iii)

106.	Mother-foetus Rh blood type incompatibility disorder can	108.	Which area allows the atria to completely empty as the
	occur if the mother is and her foetus is		ventricles fill with blood?
	(a) Rh positive; Rh positive		(a) A-V node (b) A-V bundle
	(b) Rh positive; Rh negative		(c) S-A node (d) Purkinje fibers
	(c) Rh negative; Rh positive	109.	When a leopard runs after you, the increase in heart rate
	(d) Rh negative; Rh negative		is probably due to the
107.	"X" is a fibrous tissue of the membranous septum of the		(a) hypothalamus
	heart just above the septal cusp of the tricuspid valve. It		(b) sympathetic nerves
	separates the atrium and the ventricle of the same side.		(c) increase in blood pressure
	Identify "X".		(d) medullary accelerator centre
	(a) Sino atrial node	110.	The state of heart when it is not pumping blood effectively
	(b) Atrioventricular septum		enough to meet the needs of the body is called
	(c) Atrioventricular node		(a) angina (b) cardiac arrest
	(d) Interventricular septum		(c) heart attack (d) heart failure