EXE	RCISE-I (Conceptual	Questions)	Bu	ild Up Your Understanding
1			OOD	
1.	(1) $2:1$	n / Globulin ratio in blo (2) 1 : 2	(3) 1 : 4	(4) 1 : 5
2.	Sex chromatin prese (1) Drum stick like i (3) Drum stick like i	n lobe of Neutrophil	(2) Drum stick like (4) Drum stick like	in lobe of Basophil in lobe of lymphocyte
3.	Eosinophilia is cause (1) Teniasis	ed by :- (2) Ascariaris	(3) Hay fever	(4) All of above
4.	Blood group Antiger (1) Found in Hb mol (3) Found on RBC		(2) Found in Plasma (4) None	a protien
5.	Adult Hb has chain : (1) 2 α , 2 β	- (2) 2 α, 2 γ	(3) 2 α, 2 δ	(4) 4 α
6.	Hb F (Foetal Hb) has (1) 2 α , 2 β	s chain:- (2) 2 α , 2 γ	(3) 2 α, 2 δ	(4) 4 β
7.	Life span of platelets (1) 4 days	s is :- (2) 9 - 12 days	(3) 20 - 30 days	(4) 90 days
8.	Haematocrit is ratio (1) WBC to plasma (3) Blood cells to pla		(2) Plateletto plasm (4) RBC to plasma	a
9.		of Hb normally found i (2) 10%		(4) 46%
10.	Mature RBC contain (1) Enzymes of TCA (3) Enzymes of Kreb	cycle	(2) Glycolytic enzys(4) All of above	me
11.	Blood colloidal osmo (1) Globulin	otic pressure mainly m (2) Albumin	aintainted by which p (3) Fibrinogen	lasma protein :- (4) Prothombin
12.	Mammalian RBC are (1) Biconcave, circuit (3) Oval Nucleated		(2) Biconcave, Nuc (4) None	leated
13.	Globulin protein of b (1) Clotting (3) Defence mechani	blood plasma mainly ir	volved in the:- (2) Osmotic balance (4) None	2
14.	Which WBCs resist (1) Lymphocytes	infections and are also (2) Neutrophils	associated with allerg (3) Eosinophils	gic reactions:- (4) Monocytes

15.	Persons with and blood g donors respectively :-	group are called unive	ersal recepitents & universal
	(1) AB^- , O^+ (2) O^+ , AB^-	$(3) O^{-}, AB^{+}$	(4) AB^+ , O^-
16.	ABO blood grouping is based on :-(1) Surface antibodies on RBC.(3) Surface antigen on RBC.	(2) Surface antigen of(4) Plasma antigens.	n WBC.
17.	Which leucocyte has bean shaped nucleus :-(1) Basophil(2) Monocyte	(3) Neutrophil	(4) Lymphocyte
18.	Haemolysis is :- (1) Minute bits of disintegrated blood cells (3) Minute bits of disintegrated neurons	(2) Minute bits of dis(4) Minute bits of dis	<u> </u>
19.	Smallest blood element :- (1) RBC (2) WBC	(3) Platelets	(4) None
20.	In leukaemia (Blood cancer) leucocyte coun (1) > 1 lac (2) < 10,000	t :- (3) 10- 20,000	(4) None
21.	Blood clotting requires :- (1) $Na^+ + K^+$ (3) $Na^+ +$ Thromboplastin	(2) Na ⁺ + Prothrombi (4) Ca ⁺⁺ + Thrombop	
22.	Red cell count is carried out by :- (1) Haemocytometer (3) Electro cardiogram	(2) Haemoglobinome(4) Sphigmomenome	
23.	Lymph differ from blood in possessing :- (1) Only WBC (3) More RBC & few WBC	(2) More RBC & WB(4) More WBC & few	
24.	Blood platelets found in :- (1) Pisces (2) Reptiles	(3) Birds	(4) Mammals
25.	Diapedesis means :- (1) Formation of WBC (2) Formation of RBC (3) Process by which certain WBCs squeeze (4) Movement of food in gut	e through thin capiliary	wall
26.	Respiratory pigment Fe containing but red in (1) Haemocyanin (Molluscas) (3) Chlorocruorin (Some annelids)	n colour:- (2) Haemoglobin (mc (4) None	ost vertebrates)
27	Which of following act as middleman :-		

27. Which of following act as middleman :-

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(1) WBC	(2) Lymph	(3) Plasma	(4) Blood
Process by which blo (1) Haemopoiesis (3) Thrombopoesis	ood cells are formed in	bone marrow:- (2) Haemolysis (4) Erythroblastosis	
Largest leucocytes :- (1) Neutrophil	(2) Basophil	(3) Monocyte	(4) Lympocyte
Content of haemoglo (1) 15 gm	bin I 100 ml of Blood: (2) 20 gm	- (3) 10 gm	(4) 5 gm
Micropolice man of b (1) Neutrophil	blood :- (2) Basophil	(3) Eosinophil	(4) Lymphocyte
% of daily destruction (1) 1%	n of RBC :- (2) 5%	(3) 10%	(4) 20%
Which of following h (1) RBC	as least consistancy is (2) WBC	shape :- (3) Mast cell	(4) Bone cells
Ratio WBC / RBC in (1) 1 : 100	humn blood :- (2) 1 : 200	(3) 500 : 1	(4) 1 : 500
In comparasion to W (1) Antigen (Agglutin (2) Carbonic anhydra (3) Donnan's membra (4) All of above One is more in lymph	nogen) surface on RBC ise ane	2	

(3) Lipids

(3) Alkaptouria

(4) Blood - RBC

(3) Heart

(2) Plasma - Fibrinogen

(4) Oxygen

(4) Uraemia

(4) Bone marrow

- 36. (1) RBC (2) Nutrients
- 37. Presence of RBC in urine called :-(1) Proteinura (2) Haematuria

38. Serum is:-(1) Blood - Blood cells (3) Blood - Plasma

28.

29.

30.

31.

32.

33.

34.

35.

- 39. Blood bank of body is :-(1) Liver (2) Spleen
- **40.** Worn out RBC are destroyed by :-(1) Kupffer's cells (2) Bone cells (3) Mast cells (4) None
- 41. Blood is differ from real connective tissue :-(1) Plasma of blood is not entirely secreted by blood cells

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	(2) Blood corpucles are not formed in blood(3) Fibres are absent in blood(4) All of above			
42.	HbA ₂ is composed or (1) $\alpha_2 \beta_2$	f:- (2) $\alpha_2 \gamma_2$	(3) $\alpha_2 \delta_2$	(4) $\alpha_2 \alpha_2$
43.	Spleen & thymus are (1) RBC	e haemopoitic for (in a (2) WBC	dult) :- (3) Platelets	(4) All of above
44.	I st site of haemopoes (1) Bone narrow	is :- (2) Spleen	(3) Liver	(4) Yolksac
45.	Which WBC has ma (1) Neutrophil	ximum lobs of nucleus (2) Acidophil	s :- (3) Basophil	(4) Lymphocyte
46.	Blood cells are production (1) All bones (3) Most of the bone	uced by Bone marrow s	in :- (2) Some bones (4) None	
47.	Which WBC has ma (1) Basophil	ximum life span :- (2) Monocyte	(3) Acidophil	(4) Neutrophil
48.	Blood:- (1) Contains plasma (3) Contains proteins	5	(2) Contains corpuse (4) All of the above	eles
49.	A reduction in platel (1) Clotting disorder (3) Digestive disorder		(2) Immuno disorder(4) Respiratory disorder	
50.	100 ml. pure blood c (1) 1.34 ml. O ₂	earries :- (2) 20 ml. O ₂	(3) 15 ml. O ₂	(4) 4 ml. O ₂
51.	Nucleus of granu1er (1) Spindle shape	WBC is mainly :- (2) Round	(3) Oval shape	(4) Lobed
52.	Which WBC increase (1) Acidophil	e in Allergy :- (2) Basophil	(3) Lymphocyte	(4) Neutrophil
53.	How many polypept (1) 1	ide chains are present (2) 3	in single molecule of F (3) 4	Haemoglobin protein :- (4) 2
54.	Thromboplastin is se (1) Kidney	ecreated by :- (2) Platelets	(3) Leucocyte	(4) Erythrocyte
55.	T–lymphocyte are di (1) Bone marrow	fferentiate in :- (2) Liver	(3) Thymus gland	(4) Kidney

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56.	Universal recipient blood group:- (1) AB ^{-ve} (2) O ^{-ve}	$(3) O^{+ve}$	$(4) AB^{+ve}$			
57.	Antibody are absent in which blood gr (1) A (2) B	roup :- (3) AB	(4) O			
58.	In total WBCs, lymphocytes are :- $(1) 60 - 65 \%$ $(2) 2 - 3 \%$	(3) 6 – 8%	(4) 20 – 25%			
59.	Agglutinin are present in :- (1) RBC (2) WBC	(3) Serum	(4) Spleen			
60.	Which clotting factor has been rejected (1) VIII (2) VII	d now:- (3) VI	(4) V			
61.	Which clotting factor makes antihepar(1) Serotonin(2) Fibrin	in :- (3) Fibrinogen	(4) Thromboplastin			
62.	Blood group 'A' received blood from v (1)A, AB, O (2) A, O	which group- (3) O	(4) B, AB			
63.	Which is not a plasma protein :-(1) Heparin(2) Albumin	(3) Prothrombin	(4) Fibrinogen			
64.	Megakaryocyte cell is : (1) RBC producer (3) WBC producer	(2) Thro <mark>mbocyt</mark> e pr (4) Prote <mark>in</mark> produce				
65.	Person having 'B' blood group have an (1) Anti A (2) Anti B	tibody :- (3) Both	(4) None			
66.	Colouring agent of plasma is: (1) Billiverdin (2) Stercobilling	ogen (3) Urobillinogen	(4) Urochrome			
67.	Basophil not secrete : (1) Prothrombin (2) Heparin	(3) Histamine	(4) Serotonin			
68.	In which pair erythroblastosis foetalis (1) Rh ⁺ male & Rh ⁻ female (3) Rh ⁺ male & Rh ⁺ female	occur: (2) Rh ⁻ male & Rh ⁻ (4) Rh ⁻ male & Rh ⁻				
69.	Blood of AB blood group can transfer (1) A (2) B	to :- (3) AB	(4) O			
70.	Marcophages of Lymphnodes are:- (1) Dust cell (2) Monocyte	(3) Reticular cell	(4) Kupffer cell			
71.	Granules which stain by basic dye fou (1) Monocyte (2) Plasma cell	nd in which cell:- (3) Reticular cell	(4) Mast cell			
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72.	The Rh antibodies from the mother $(Rh - ve)$ can leak into the blood of the foetus $(Rh + v)$ and destroy the:-				
	(1) Foetal RBCs	(2) Mother RBCs	(3) Foetal WBCs	(4) Both (1) and (2)	
73.	Blood clotting requir (1) Na ⁺ and K ⁺ (3) Na ⁺ and thromboy		 (2) Na⁺ and prothrom (4) Ca²⁺ and thrombo 		
74.	Agranulocytes are (1) Eosinophils and r (3) Eosinophils and l	-	(2) Monocytes and ly(4) Lymphocytes and		
75.	Platelets are a source (1) Rbrinogen	of (2) Calcium	(3) Thromboplastin	(4) Heamoglobin	
76.	Which is unrelated to (1) Rbrinogen	blood coagulation ? (2) Fibrin	(3) Bilirubin	(4) Calcium	
77.	Major component of (1) Water (3) Organic substanc	-	(2) Inorganic Substar (4) Blood cells.	nces	
78.	Maximum number of (1) Basophils	f white blood corpuscle (2) Neutrophils	es is that of (3) Monocytes	(4) Eosinophils	
79.	Life span of human v (1) 24 hours (3) 120 days	white blood corpuscles	is (2) Less than 10 days (4) 100 hours	3	
80.	Which of the followi (1) Lymphocyte	ng is not a granulocyte (2) Basophil	? (3) Neutrophil	(4) Eosinophil	
81.	Which of the followi (1) Neutrophils	ngare involved in body (2) Lymphocytes	/ defence (3) Macrophages	(4) All the above	
82.	Largest corpuscles in (1) Erythrocyrtes	human blood are (2) Monocytes	(3) Lymphocytes	(4) Basophils	
83.	Prothrombin, albumi (1) Pancreas	n and fibrinogen are sy (2) Bone marrow	vnthesised by (3) Spleen	(4) Liver	
84.	Blood leucocytes are (1) Epithelial	(2) Endothelial	(3) Glandular	(4) Connective	
85.	Which one is a factor (1) Vitamin B ₁₂	r for maturation of eryt (2) Vitamin A	hrocytes (3) Vitamin D	(4) Vitamin C	

^{86.} In which state iron is present in haemoglobin

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	(1) Unionic	(2) Fe^{2+}	(3) Fe^{3+}	(4) None of the above
87.	Percentage of haen (1) 10%	noglobin in RBCs is (2) 20%	(3) 34%	(4) 48%
88.	Immature RBCs of (1) No nucleus (3) Many nuclei	mammals have	(2) Single beaded(4) Single nucleus	
89.	Megakaryocytes (1) Produce leucoc (3) Are carriers of		(2) Forms blood pl (4) Are carriers of	
90.	During blood clotti (1) Thrombin	ng, fibrin is produced by (2) Prothrombin	y (3) Liver	(4) Proteolysis
91.	Number of erythro (1) 4 million	cytes per mm ³ of human (2) 5 million	blood is (3) 6 million	(4) 0.5 million
92.	Number of WBCs (1) 8000	per mm3 of human bloo (2) 4000	d is (3) 3000	(4) 16000
93.	RBCs are nucleated (1) Man	l in (2) Rabbit	(3) Rat	(4) Frog
94.	An anticoagulant is (1) Heparin	; (2) Hirudin	(3) EDTA	(4) All the above
95.	The rarest leucocyt (1) Basophil	e of human blood is (2) Monocyte	(3) Neutrophil	(4) Eosinophil
96.	Blood has a pH of (1) 7.4	(2) 7.8	(3) 6.9	(4) 6.3
97.	The RBCs in huma (1) Oval (3) Circular, bicond	n are	(2) Circular, bicon (4) Oval, nonnucle	cave and nucleated eated, Circular
98.	Bilirubin and bilive (1) Globin	erdin are derived from (2) Heam	(3) Iron	(4) Fat
99.	Protein required for (1) Haemoglobin	r coagulation of blood is (2) Globulin	(3) Fibrinogen	(4) Albumin
100.	Globulin is (1) Plasma protein (3) Serum		(2) Antigen (4) Found in lymp	hatic tissue.

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101.	Structure absent from fresh frozen blood plasma is (1) Immunoglobulin (2) Plasma		
	(1) Immunoglobulin(2) Plasma(3) Albumin(4) Platelets		
102.			
	(1) Sodium glycocholate(2) Sodium hydroxyde(3) Heparin(4) Sodium tatirocholate		
103.	3. Continuous bleeding from an injured part of body is due to deficiancy of:- (1) Vitamin-A(2) Vitamin-B(3) Vitamin-K(4) Vitamin-E		
104.	4. Abnormal increase in number of RBC in blood is called (1)Anaemia (2) Polycythemia (3) Leukemia (4) Sarcoma		
105.	5. Liquid which remain after clotting of blood is called as:- (1) Serum (2) Plasma (3) Lymph (4) Blood		
106.	coagulation of blood at the site of its introduction -		
	(1) Thromboplastin (2) Fibrinogen (3) Heparin (4) Prothromb	111	
107	INDRODUCTION (TYPES OF CIRCULATION)		
107.	 7. Sinus venosus in mammals is believed to have merged with the wall of :- (1) Right auricle (2) Left auricle (3) Right ventricle (4) Left ventricle 		
108.	8. Closed circulatory system occurs in (1) Cockroach (2) Tadpole/Fish (3) Mosquito (4) Housefly		
109.	 9. Systemic heart refers to :- (1) The heart that contracts under stimulation from nervous system (2) Left auricle and left ventricle in higher vertebrates (3) Entire heart in lower vertebrates (4) The two ventricles together in humans 		
	STRUCTURE OF HEART, HEART HEAT, CONDUCTING SYSTEM	[
110.	 Where is the pace maker situated :- (1) In left auricle near opening of pulmonary vein (2) In right auricle hear eustachian valve . (3) On inter - auricular septum (4) On inter-ventricular septum 		
111.			
112.	2. In mammalian embryo the pulmonary aorta communicates with carotico-system	nic aorta by a	

narrow ductus arteriosus, in the adult this connection closes leaving :-

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	(1) Fossa – ovalis(3) Ligamentum arteriosus	(2) Carotico pulmor(4) None of these	nary aperture
113.	To reach the left side of heart the blood mu (1) Sinus venosus (2) Kidneys	(3) Liver	(4) Lungs
114.	Characteristics of cardiac muscles are that (1) Contract quickly and get fatigued (3) Contract slowly and get fatigued	(2) Contract quickly	and of not get fatigued and do not get fatigued
115.	Eustachain value occurs in :- (1) connection between middle ear and Pha (2) Middle ear (3) Left ventricles of heart (4) Right auricle of heart	ırynx	
116.	In heart of Human bicuspid valve is situate (1) Right auricle and pulmonary aorta (3) Left auricle and left ventricle	d in :- (2) Post caval and a (4) Right auricle and	
117.	When the right ventricle contracts the bloo (1) Superior vena cave (3) Pulmonary aorta	d is pump into :- (2) Dorsal aorta (4) Pulmonary veins	s
118.	The blood leaving the lungs is richer than t (1) Oxygen (2) CO ₂	he blood entering the (3) Hydrogen	lung in :- (4) Moisture
119.	Pace maker influences :- (1) Contraction of heart muscles (3) Rate of heart beat	(2) Flow of blood ir (4) Generation of ac	
120.	Purkinje fibres are found in :- (1) Brain (2) Liver	(3) Eyes	(4) Heart
121.	Coronary artery supplies blood to :- (1) Mammary glands (3) Skin	(2) Rib muscles (4) Heart	
122.	In children, heart rate is :- (1) More than adult (2) Less than adult	(3) Equal to adult	(4) None of these
123.	The wall of Human heart is thick due to pro (1) Inner layer endocardium (3) Outer most layer pericardium	esence of (2) Middle layer my (4) Outer layer epic	
124.	The pulmonary aorta aries from :- (1) Left ventricle (2) Right ventricle	(3) Left auricle	(4) Right auricle
125.	When right ventricle of human heart contra	act then blood pumped	l into :-

125. When right ventricle of human heart contract then blood pumped into :-

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	(1) All parts of body (2) Lungs	(3) Pulmonary veins	(4) Systemic aorta
126.	Bundle of His originates from :- (1) Sinu-auricular node (3) Pulmonary aorta	(2) Auriculo-ventricu(4) Systemic aorta	ılar node
127.	The small oval depression found on inter au (1) foramen ovale (3) Foramen of monro	uricular septum in adul (2) Fossa ovalis (4) Foramen of magn	
128.	Purkinje fibres mainly help in contraction o (1) Right auricle (2) Left ventricle	f :- (3) Ventricles	(4) Aorta
129.	The papillary muscles are helpful in :- (1) Movement of eye balls (3) Closing & opening the valves of heart	(2) Movement of eye(4) Movement of pin	
130.	Heart of human does not have :- (1) Right auricle (2) Sinus venosus	(3) Conus arterious	(4) Both 2 & 3
131.	The valves of the heart are attached to papil (1) Columnae carnae (3) Tendinae	llary muscles by :- (2) Chordae tendinae (4) Pectinati muscles	
132.	In cyanosis colouration of body parts appea(1) Bluish(2) Yellowish	rs :- (3) Reddish	(4) Brownish
133.	The rate of heart beat per minute is highest(1) Elephant(2) Whale	in case of :- (3) Man	(4) Mouse
134.	Which has the thickest walls :- (1) Right auricle (2) Left auricle	(3) Right ventricles	(4) Left ventricle
135.	Blood supply of heart musculature is Via :- (1) Cardiac artery (2) Coronary artery	(3) Aorta	(4) Pulmonary vein
136.	 The remainent of formen ovale (Fossa Ovalis) is located in :- (1) Inter atrial septum (2) Interventricular septum (3) Between pulmonary & Aortic arches (4) Superior vena Cava 		
137.	Which organ is by passed in Foetal Circulat(1) Heart(2) Brain	tion :- (3) Lung	(4) Liver
138.	The connection between pulmonary & Aort (1) Ligamentum arteriosus (3) Foramen ovale	ic arches in Foetus is : (2) Ductus arteriosus (4) All of the above	

139. The mitral valve is supported by :-

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	(1) Bundle of HIS(3) foramen ovale	(2) Ductus Arteriosu(4) Chorda tendinae	
140.	Which of the following is congenital heart (1) Patent ductus arteriosus (3) ventricular septal defect	disease (2) Patent formen ov (4) All	vale
141.	Normal Heart rate in two month old infant $(1) < 72/\text{min.}$ (2) 60 to 72/min.	is :- (3) > 72/min.	(4) 16/min.
142.	(1) < 72/min.(2) 00 to 72/min.The largest and the thickest heart chamber 1(1) Left ventricle(2) Left atrium	• •	(4) Right ventricle
143.	Pace maker is (1) Instrument for measuring heart beat (2) Instrument for measuring pulse rate (3) Auriculo-ventricular node that provides (4) Sinu-auricular node that provides impul		t
144.	Tricupsid valve is found in between (1) Sinus venosus and right auricle (3) Left ventircle and left auricle	(2) Right auricle and (4) Ventricle and ao	-
145.	Most fatal thrombosis leading to myocardia (1) Right circumflex coronary artery (3) Left anterior descending artery	al infarction is of (2) Right coronary a (4) Left circumflex of	-
146.	Origin of heart beat and its conduction is re (1) Av node \rightarrow Bundle of His \rightarrow SA node (2) SA node \rightarrow Purkinje fibres \rightarrow AV node (3) Purkinje fibres \rightarrow AV node \rightarrow AV node (4) SA node \rightarrow AV node \rightarrow Bundle of His	→ Purkinje fibres e → Bundle of His e → Bundle of His	
147.	The hormone that stimulates heart beat is (1) Insulin (2) Adreanaline	(3) Glucagon	(4) Gastrin
148.	Heart beat is accelerated by :- (1) Sympathetic nerves and noradrenaline (3) Cranial nerves arid acetylcholine	(2) Cranial nerves an(4) Sympthetic nerves	
149.	Neurogenic heart is characteristic of (1) Humans (2) Invertebrates	(3) Rat	(4) Rabbit
150.	 In circulatory system, valves occur in (1) Heart and blood bessels of both ve lymphatics (2) Both vertebrate and invertebrate hearts (3) Vertebrate heart only (4) Both vertebrate and invertebrate hearts 		

151.	Largest heart is of (1) Giraffe (2) Elephant	(3) Crocodile (4) Lion	
152.	Pericardia! fluid is secreted by (1) Myocardium (3) Visceral peritoneum	(2) Perietal peritoneum(4) Pericardium	
153.	Which one generates heart beat? (1) Purkinje fibres (3) SA node	(2) Cardiac branch of vagus nerve(4) AVnode	
154.	Heart wall is made of (1) Myocardium (3) Endocardium	(2) Epicardium(4) All the above	
155.	Match the columns Column I a Superior Vena Cava b Inferior Vena Cava c Pulmonary Artery d Pumonary Vein (1) a–q, b–t, c–r, d–p (3) a–t, b–r, c–p, d–q	 Column II Carries deoxygenated blood to lungs Carries oxygenated blood from lungs Brings deoxygenated blood from lower parts of body to right atrium Brings deoxygentaed blood from upper parts of body into right atrium a-t, b-p, c-q, d-r a-t, b-p, c-r, d-q 	
156.	Blood vessel which brings oxygenated bloo (1) Precaval vein (3) Pulmonary vein	d to left auricle is (2) Post caval vein (4) Pulmonary artery	
157.	Ventricular contraction in command of :- (1) S.A. Node (3) Purkinje fibers	(2) A.V. Node(4) Papillary muscles	
158.	Bundle of His is a network of:- (1) Muscle fibres distributed throughout the heart walls (2) Muscle fibres found only in the inter ventricular septum (3) Nerve fibres distributed in ventricles (4) Nerve fibres found throughout the heart		
159.	The cardiac pacemaker in a patient fails to f pacemaker is to be grafted in him. It is likel (1) Purkinje system (3) Atrioventricular node	function normally. The doctors find that an artificial y that it will be grafted at the site of - (2) Sinuatrial node (4) Atrioventricular bundle	
160.	Which of the following have thickest wall:- (1) Right auricle (3) Right ventricle	(2) Left auricle(4) Left ventricle	

161. The cardiac impules that results into the heart beat is delayed at :-(1) Internodal tract (2) AV node (3) Bundle of His (4) Purkinje fibres 162. Bicuspid valve (mitral) guards the opening in mammals between :-(1) Left atrium and left ventricle (2) Pulmonary vein and left auricle (3) Stomach and intestine (4) Right atrium and right ventricle 163. "Bundle of His" are:-(1) nervous tissue supplied to ventricles (2) nervous tissue supplied to heart (3) muscular tissue supplied to ventricles (4) muscular tissue supplied to heart 164. Papillary muscles are located in (1) Ventricle, heart of rabbit (2) Dermis of mammalian skin (3) Orbit of vertebrates eyes (4) Pylorus of vertebrate stomach 165. The heart beat of which animal is myogenic in nature (1) Cockroach (2) Leech (3) Elephant (4) All of these **REGULATION OF HEART BEAT, CARDIAC CYCLE AND HEART SOUNDS** 166. Blood pressure and heart beat is regulated by:-(3) Optic nerve (1) Insulin (2) Adrenalin (4) Growth hormone 167. Heart beat is controlled by which cranial nerve :-(3) IIIrd $(4) V^{th}$ $(1) X^{\text{th}}$ (2) IXth 168. If the vagus branch of frog is stimulate the heart will show:-(1) Stoppage of heart beat (2) Decreased heart beat (3) Increased heart beat (4) No change 169. The heart sound "DUP" is Produced when: (1) Mitral valve opens (2) Mitral valve closes (3) Semilunar valve at the base of aorta closes (4) Tricuspid valve opens 170. When heart beat is decreased than normal is called (1) Bradicardia (2) Tachycardia (3) Hypocardia (4) Nicacardia 171. The 'Lubb' and "Dupp" heart sound are due to: (1) Opening of heart valves (2) Action of papillary muscles (3) Closing of heart valves (4) Activity of pace maker 172. Normal Cardiac output is :-(1) 15 Litres/min. (2) 5 Litres \times 72/min. (3) 5 Litres/min. (4) 5/72 Litres/min.

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 (1) Bradycardia (2) Tachycardia (3) Both (4) None 174. [⁴ Heart sound is : (1) LUBB' at end of systole (2) DUBB at end of systole (3) TUBB' at end of systole (4) DUBB' at begining of Ventricular systole (4) DUBB' at begining of Ventricular systole (1) Sympathetic nerves and actentaline (2) Sympathetic nerves and actentaline (3) Both (4) Parasympathetic nerves and actelylcholine 176. The sound of lubb is produced during closure of (1) Beruspid valve (2) Tricuspid valve (3) Semilunar valves (4) Both (1) and (2) 177. 'Dup' sound is produced during closure of (1) Semilunar valves (2) Bicuspid valve (3) Tricuspid value (4) both (2) and (3) 178. Cardiac ouput is blood (1) Received by heart per minute (2) Pumped by ventricles per sec (3) Pumped by left ventricle per ninute (4) Pumped by left ventricle per nour 179. If parasympathetic nerves of the rabbit is cut then heart beat :- (1) Unaffected (2) Decreases (3) Increases (4) Stop 180. In human oxygenated blood flows from:- (1) Left auricle to right ventricle during auricular systole (2) Right auricle to ada during ventricular systole (3) Right ventricle to a during ventricular systole (4) Pulmonary vein to left auricle during auricular systole (3) Semilunar valves close (4) Tricuspid valve close 181. In cardiac cycle, "Dup" sound is heard when (1) Fast heart rate (2) Slow heart rate (3) Stop heart rate (4) Normal heart rate 182. Tachycardia is : (1) Fast heart rate (2) Slow heart rate (3) Stop heart rate (4) Normal heart rate 183. A heart "murmur" disorder indicates a defect of : (1) Bundle	173.	Acetyl Choline cause	28 :-		
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184. Blood enters into the heart because muscles of:(1) Atria relax(2) Ventricle contract		(1) Bundle of His		(2) Heart valves	
(1) Atria relax (2) Ventricle contract		(3) Sinuauricular noc	le	(4) Atrioventricular	node
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	184.		neart because muscles		•f
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	183.	 (1) Fast heart rate A heart "murmur" dia (1) Bundle of His (3) Sinuauricular nod Blood enters into the (1) Atria relax 	sorder indicates a defe	ct of : (2) Heart valves (4) Atrioventricular s of: (2) Ventricle contract	node

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BLOOD PRESSURE, BLOOD VESSELS, PORTAL SYSTEM AND LYMPHATIC SYSTEM AND OTHERS

185.	Cells forming the wall of (1) Oxyntic cell (2)	of blood capillaries a 2) Endothelial cell		(4) Haemocytes
186.	Blood Capillaries are m (1) Endothelium and the (2) Endothelium and the (3) Endothelium and the (4) Only endothelium	in coat of connective in coat of muscle fib	res	res
187.	Red pulp and white pulp (1) Tooth (2)	p are histological str 2) Spleen	ucture found in :- (3) Bone	(4) Liver
188.	Pulmonary veins are the (1) Carry deoxygenated (2) Carrying oxygenated (3) Carry deoxygenated (4) Carry oxygenated bl	l blood from lungs to d blood from lungs t l blood from heart to	o heart lung	
189.	Oxygenated blood is ca (1) Pulmonary artery (2)	•	(3) Renal vein	(4) Hepatic portal vein
190.	Lymph can be defined a (1) Blood minus corpus (3) Blood minus WBC		(2) Blood minus Plas (4) Blood minus RB0	
191. 192.	Sphygmomanometer m (1) Blood pressure (3) Rate of heart beat Which has no muscular		(2) Pulse rate(4) All	
192.		2) Arteriole	(3) Veins	(4) Artery
193.	Pulse beat is measured in (1) Veins (2)	in :- 2) Artery (Radial)	(3) Nerve	(4) Capillary
194.	In a normal man blood (1) 120/80 mm of Hg (3) 80/120 mm of Hg	pressure is :-	(2) 80/100 mm of Hg (4) 100/80 mm of Hg	F
195.	In which of the followin (1) Having valves to co (3) Having muscular wa	ntrol flow of blood	(2) Having narrow lu	

196.	 Systolic pressure is higher than diastolic pressure due to :- (1) Volume of blood in the heart is greater during systole (2) Arteries contract during systole (3) Blood vessels offer resistance to flowing blood during systole (4) Blood is forced into arteries during systole. 									
197.	The venous system of frog differs from that of a mammals in the presence of :-(1) Renal portal system(2) Hapatic portal system(3) Three superior venacava(4) Hepatic vein									
198.	Which artery supplies blood to the diaphragm :-(1) Phrenic(2) Splenic(3) Renal(4) Caudal									
199.	Which one of the following organ can be (1) Heart (2) Liver	called a sort of "blood b (3) Spleen	oank" :- (4) Lungs							
200.	A renal portal system is found in :-(1) Rabbit(2) Mouse	(3) Horse	(4) Frog							
201.	All arteries carry oxygenated blood excep (1) Systemic (2) Hepatic	ot :- (3) Pulmonary	(4) Cardiac							
202.	 "Vasa Vasorum" refers to :- (1) Jugular anastomosis (2) A netwatk of blood vessels in an organ (3) "Vessels of vessels" nutritive in function (4) Carotid labyrinth regulating pressure of blood vessels 									
203.	When there is a sudden loss of blood from(1) Spleen(2) Heart	n the body the organ wh (3) Liver	ich supplies blood is :- (4) Lung							
204.	Coagulation of lymph is :- (1) Faster than blood (3) Slower than blood	(2) Not possible(4) A passive proces	38							
205.	An artery can be distinguished from a vei (1) Thicker wall (2) Lesser lumen	n in having (3) No valve	(4) All of the above							
206.	The most important center of lymph form(1) Liver(2) Spleen	ation is :- (3) Bone marrow	(4) Mucosa of ileum							
207.	The renal portal system of vertabrates is significant for(1) Elimination of excess fats by kidney(2) Removing nitrogenous wastes in kidneys(3) Sypplying food to the kidneys(4) Draining blood from the kidney									
208.	Removal of which organ will have least e	effect in an adult Human (3) Pancreas								
209.	 (1) Spleen (2) Liver Which one of the following is the main grain (1) Bone marrow (2) Spleen 		(4) Pituitary (4) Kidney							

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- **210.** Largest lymphoid organ of body is :- (1) Liver (2) Kidney
- **211.** Brachial arteries supply blood to :-
(1) Neck(2) Fore limbs(3) Chest(4) A

(4) Abdomen

(4) Pancrease

- 212. A portal system is that in which :-
 - (1) A vein begins from an organ and ends in heart
 - (2) An artery breaks up in an organ & restarts by the union of its capillaries
 - (3) The blood from gut is brought in to kidneys before it is poured in to heart

(4) A vein breaks up in an organ into capillaries & restarts by their union as a new vein in the same organ

(3) Spleen

- **213.** Indicate correct statement for Human
 - (1) Arteries always carry oxygenated blood while veins always carry deoxygenated blood
 - (2) Venous blood is returned to left auricle
 - (3) Arteries are provide with valves while veins are devoid to valves

(4) Arteries always carry blood away from the heart, while veins always carry blood towards the heart

- 214. A vein differ from an artery in having :-
 - (1) Strong muscular walls
 - (2) Narrow lumen
 - (3) Valves control direction of blood flow opposite to heart
 - (4) Valves control direction of blood flow towards heart
- 215. Blood circulation that start in capillaries and ends in capillaries is called :-
 - (1) Portal circulation
 - (3) Cardiac arrest

(2) Hepatic circulation(4) None

- 216. What is true about vein :-
 - (1) All veins carry deoxygenated blood
 - (2) All veins carry oxygenated blood
 - (3) They carry blood from organs toward heart
 - (4) They carry blood from heart towards organs
- **217.** In mammals the role of spleen is :-
(1) Graveyard of RBC
(3) Haemopoietic organ(2) Reservoir of blood
(4) All
- **218.** Which of the following is valve less :-(1) Arteries (2) Veins (3) Lymphatics (4) Chambers in Heart
- 219. Which of the following carries deoxygenated blood only :-
 - (1) Carotid artery(2) Pulmonary artery(3) Pulmonary vein(4) Aorta

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220.	Which vessel carries most oxygenated blood :-										
	(1) Pulmonary artery	(2) Pulmonary vein									
	(3) Coronary artery	(4) Cerebral artery									
		-									
221.	In a Portal system (Man) :-										
(1) A vein starts from an organ & ends in Heart											
	t & breaks in Capillaries										
(3) An artery breaks in an organ & restarts by union of its Capillaries											
	(4) Blood from intestine is brough in kidne	ys then in IVC									
222.	Which artery is absent in frog										
	(1) Renal artery (2) Carotid artery	(3) Phrenic artery (4) Right systemic arch									
223.	Lymph										
	(1) Transports O_2 to brain	(2) Transports CO_2 to lungs									
	(3) Returns interstitial fluid to blood	(4) Returns RBCs and WBCs to lymph nodes									
	A A A A A A A A										
224.	Glucose is carried from digestive tract to liv										
	(1) Hepatic artery	(2) Hepatic portal vein									
	(3) Pulmonary vein	(4) None of the above									
225	Dulmonomy ortery different from pulmonomy	ain in hoving									
225.	Pulmonary artery differs from pulmonary v (1) Thick wall (2) Thin wall										
	(1) Thick wall (2) Thin wall	(3) Valves (4) Both (2) and (3)									
226.	Blood pressure is measured by										
220.	(1) Sphygmomanometer	(2) Phonocardiogram									
	(3) Electrocardiogram	(4) Stethoscope									
		(1) Stemoseope									
227.	All veins have deoxygenated blood except										
	(1) Renal vein	(2) Hepatic vein									
	(3) Hepatic portal vein	(4) Pulmonary veins.									
228.	Normal pulse pressure is										
	(1) 80 mm Hg (2) 120 mm Hg	(3) 40 mm Hg (4) 320 mm Hg									
229.	Fully digested food reaches to liver by : ·										
	(1) Hepatic portal vein	(2) Hepatic artery									
	(3) Hepatic vein	(4) All the above									
•••											
230.	Which of the following statement is true for	r Lymph									
	(1) WBC and serum										
	(2) All components of blood except RBCs,	Platelets and some proteins									
	(3) RBCs, WBCs and Plasma										

(4) RBCs, Proteins and Platelets

231.	Which of the following vessel in rabbit starts with capillaries and ends in capillaries :-															
	(1) Pulmonary artery							(2) Renal vein								
_	(3) Hepatic portal vein						(4) R	enal art	ery							
232.			els pour	their m	aterials	s in		_								
	(1) Subclevian vein								ry artery	y						
	(3) Artery which enters in legs							(4) Right ventricle								
233.	Henatia	r nort	al system	n starts	from											
2001	Hepatic portal system starts from (1) Digestive system to liver							(2) Kidney to liver								
	(1) Digestive system to fiver (3) Liver to heart							(4) Liver to kidney								
	(0) 21	01 00 1	liourt													
234.	Blood	leavin	ng liver a	and mo	ving to	heart w	ill have	more c	oncentra	ation of	:					
	(1) Bile	e		(2) U	Irea		(3) C	lycoger	n	(4) A	mino a	cid				
235.			urface a													
	(1) Hea	art		(2) C	apillari	es	(3) A	rteriole	s	(4) V	eins					
236.	$\Delta 11 \text{ art}$	nios c	carry ox	vaenato	d block	event										
230.			artery		enal art	-		ulmona	ry arter	(A)	ardiac (artery				
	(1) 110		ui toi y	(2) N		lory	(3)1	unnona	iy arter	y (1) C		ui tei y				
237.	The str	uctur	e of whi	ch of th	ne follo	wing co	nsist of	a layer	of singl	e cell tl	nickness	s ?				
			pillary		rtery	0		enule	0		rteriole					
238.		•	art disea		ue to :											
			occi bac													
			ation of													
			ng of th				1									
	(4) Insi	uTT1C16	ent bloo	d suppl	y to the	heart n	nuscles									
239.	An arte	ry is	a vessel	that ca	rries bl	ood										
207.		•	om the h		11105 01	000.										
	· · /	-	the hear													
			deoxyg		withou	t any ex	ception									
	(4) non					J	- I									
240.			ndicates	•		ion?										
	(1) 90/60 (2) 120/85 (3) 110/70									(4) 1	40/100					
						ANSW	ER KI	Y								
				FX	ERCIS	E-I (Co	ncentu	al Oue	stions)							
							<u>magnu</u>	ar Que	57701157							
1.	(1)	2.	(1)	3.	(4)	4.	(3)	5.	(1)	6.	(2)	7.	(1)			
8.	(4)	9.	(3)	10.	(2)	11.	(2)	12.	(1)	13.	(3)	14.	(3)			
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15.	(4)	16.	(3)	17.	(2)	18.	(1)	19.	(3)	20.	(1)	21.	(4)
22.	(1)	23.	(1)	24.	(4)	25.	(3)	26.	(2)	27.	(2)	28.	(1)
29.	(3)	30.	(1)	31.	(1)	32.	(1)	33.	(2)	34.	(4)	35.	(4)
36. 43.	(3)	37. 44.	(2)	38. 45.	(2) (1)	39. 46.	(2) (2)	40. 47.	(1) (2)	41. 48.	(4)	42. 49.	(3)
43. 50.	(2) (2)	44. 51.	(4) (4)	43. 52.	(1) (1)	40. 53.	(2) (3)	47. 54.	(2) (2)	40. 55.	(4) (3)	49. 5 6.	(1) (4)
50. 57.	(2) (3)	51. 58.	(4)	52. 59.	(1) (3)	55. 60.	(3)	54. 61.	(2) (4)	62.	(3) (2)	63.	(4) (1)
64.	(3) (2)	65.	(1)	66.	(3)	67.	(3) (1)	68.	(1)	69.	(2) (3)	70.	(1)
71.	(2) (4)	72.	(1)	73.	(4)	74.	(1) (2)	75.	(3)	76.	(3)	77.	(1)
78.	(1) (2)	79.	(1) (2)	80.	(1)	81.	(4)	82.	(3) (2)	83.	(4)	84.	(1) (1)
85.	(1)	86.	(2)	87.	(3)	88.	(4)	89.	(2)	90.	(1)	91.	(2)
92.	(1)	93.	(4)	94.	(4)	95.	(1)	96.	(1)	97.	(3)	98.	(2)
99.	(3)	100.	(1)	101.	(4)	102.	(3)	103.	(3)	104.	(2)	105.	(1)
106.	(1)	107.	(1)	108.	(2)	109.	(2)	110.	(2)	111.	(3)	112.	(3)
113.	(4)	114.	(2)	115.	(4)	116.	(3)	117.	(3)	118.	(1)	119.	(1)
120.	(4)	121.	(4)	122.	(1)	123.	(2)	124.	(2)	125.	(2)	126.	(2)
127.	(2)	128.	(3)	129.	(3)	130.	(4)	<u>13</u> 1.	(2)	132.	(1)	133.	(4)
134.	(4)	135.	(2)	136.	(1)	137.	(3)	13 8.	(2)	139.	(4)	140.	(4)
141.	(3)	142.	(1)	143.	(4)	144.	(2)	145.	(3)	146.	(4)	147.	(2)
148.	(1)	149.	(2)	150.	(1)	151.	(2)	152.	(4)	153.	(3)	154.	(4)
155.	(3)	156.	(3)	157.	(1)	158.	(2)	159.	(2)	160.	(4)	161.	(2)
162.	(1)	163.	(3)	164.	(1)	165.	(3)	166.	(2)	167.	(1)	168.	(2)
169.	(3)	170.	(1)	171.	(3)	172.	(3)	173.	(1)	174.	(3)	175.	(1)
176.	(4)	177.	(1)	178.	(3)	179.	(3)	180.	(1)	181.	(3)	182.	(1)
183.	(2)	184.	(1)	185.	(2)	186.	(4)	187.	(2)	188.	(2)	189.	(2)
190.	(4)	191.	(1)	192.	(1)	193.	(2)	194.	(1)	195.	(1)	196.	(4)
197.	(1)	198.	(1)	199.	(3)	200.	(4)	201.	(3)	202.	(3)	203.	(1)
204.	(3)	205.	(4)	206.	(4)	207.	(2)	208.	(1)	209.	(2)	210.	(3)
211.	(2)	212.	(4)	213.	(4)	214.	(3)	215.	(1)	216.	(3)	217.	(4)
218.	(1)	219.	(2)	220.	(2)	221.	(2)	222.	(3)	223.	(3)	224.	(2)
225.	(1)	226.	(1)	227.	(4)	228. 225	(3)	229. 226	(1) (2)	230.	(2) (1)	231.	(3)
232.	(1) (1)	233. 240	(1) (4)	234.	(2)	235.	(2)	236.	(3)	237.	(1)	238.	(4)
239.	(1)	240.	(4)										