# 3. CIRCULATORY SYSTEM

1.	This Picture Snows		The state of the s		(	b	)		
	1. Pulse rate	2. Heartbeat	1/2						
	3. Respiration Rate	4. None	A CONTRACTOR OF THE PARTY OF TH						
	a) 1 is correct	b) 1 & 2 Correct	c) 3 Correct	d) All	cor	rect			
2.	Naresh is doing some Exercise in ground, syam is watching the TV in his house.								
	Whose pulse rate is h	nigh			(	b	)		
	a) Syam	b) Naresh	c) Both	d) nor	ne				
3.	In Hydra the Materia	ls are Transported by			(	a	)		
	a) Gastro Vascular System b) F		b) Blood Circulatory	system					
	c) Respiratory system d) None								
4.	The Membranes which	ch covered the heart A	re Called		(	c	)		
	a) Fluera		b) Meninges						
	c) Pericardial Membranes d) None								
5.	The Pulse Rate in ne	w born babies is	CO.		(	a	)		
	a) 100-150	d) 60-100							
6.	Stethoscope is invent	ted by 🎎	* *		(	d	)		
	a) Fabrici	b) Malpighi	c) Harvey	d) Rei	ne L	aeni	nec		
7.	The Blood vessel Tra	ansport Blood to the n	nuscle present in the		(	c	)		
	Heart is called								
	a) Aorta b) Veins c) Caronary Artery d) Pulmonary Arter								
8.	No. of Volves presen	t in the Heart are			(	a	)		
	a) 4	b) 3	c) 5	d) 2					
9.	Volve present in	Between the Left auri	cle and left ventricle is		(	b	)		
	a) Tricuspid	b) Mitral	c) Pulmonary volve	d) sys	tem	ic vo	olve		
10.	Oxidised Blood Flows in pulmonary vein. Then what type of Blood flows in systemic								
	aorta				(	a	)		
	a) Oxidised	b) Carboxidised	c) Both	d) nor	ıe				
11.	The volves in veins a	are discovered by			(	d	)		
	a) Malpighi b) Harvey c) Laennec				orici				
12.	The Time Required f	or one complete cardi	ac cycle in man		(	b	)		
	a) 0.6 sec	b) 0.8 sec	c) 1.6 sec	d) 0.06 sec					

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13.	No. of Blood vessels Attached to the heart					b	)		
	a) 5	b) 6	c) 4	d) 3					
14.	Muscles that help in	pushing the lymph into	o lymphatic vessels and	i	(	a	)		
	Blood into veins towards the heart are								
	1) Skeletal muscle	2) Cardiac Muscle	3) Smooth Muscle						
	a) 1 is correct	b) 1 & 2 Correct	c) 1,2,3 correct	d) No	ne				
15.	The extracted plant j	uice by aphids contain	s		(	a	)		
	a) Sugars and amino acids		b) Water						
	c) Minerals		d) Water and minera	ls					
16.	Which one is used for absorption of water and minerals from								
	soil in to plants				(	b	)		
	a) Capillaries	b) Root hair	c) Bark	d) Xy	lem				
17.	Water Evaporates th	rough stomata of leave	s and Of stem		(	c	)		
	a) Root hair	b) Aerial Roots	c) Lenti Cells	d) Raj	phid	S			
	Matching	(3113)							
18.	Annelids	(e) a. 2 chambered heart							
19.	Arthropods	(d) b. 4 Chambered heart							
20.	Mammals	( xb )	C. Osmosis, Diffusion						
21.	Fish	( a )	d. Open circulatory system						
22.	Amoeba	Cologyteache	e. Pulsatile Ves	sel					
		One mark Q	uestion						
1.	What is the reason for the elasticity of the arteries wall. (or)								
	Arteries and veins are both transport the blood. Imagine which walls are thicker and								
	way?								
a.	The walls of arteries are thick and elastic. When the blood enters with a pressure in to								
	arteries the walls will stretch and this enables the arteries to with stand the increase in								
	the pressure with out bursting.								
2.	In our body the blood flows always in a single direction which parts are responsible for								
	this. (or)								
	What is the function of valves in blood circulatory systems (or)								
	If the valves are absent in blood circulatory system what will happen.								
a.	Valves are used to flow blood in single direction in blood vessels. If valves are absent								
	the blood flows in reverse also.								
3.	What are the moments caused for the transport of materials in the protoplasm of								
	amoeba (or) What	amoeba (or) What is meant by Brownian movement							

- a. In unicellular organisms like amoeba the protoplasm shows natural moments are called Brownian movements.
- 4. What is meant by cardiology?
- a. Study of heart
- 5. What is meant by Hematology?
- a. Study of Blood
- 6. The fluid that contains blood without solid particles is called?
- a. Lymph.
- 7. Which vitamin is used for clotting of blood?
- a. Vitamin K
- 8. The Blood flows twice through the heart for completing one circulation It is called?
- a. double circulation.
- 9. What is meant by gastro vascular cavity?
- a. Hydra and Jelly fish have developed blind sac like gastro vascular cavity for digestion and transportation of nutrients.
- 10. What happen if we remove the bark in some area around the stem?
- a. If we remove the bark in some area of the stem, then the upper part of the cutting area was swollen. Because the phloem transports food materials to lower parts.
- 11. What happen if cholesterol is clot around the walls of the arteries?
- a. It leads to Heart attack.
- 12. What are the tissues that used for transport of water and food in plants?
- a. Xylem water transport, Phloem: Food transport.

#### 2 Marks questions

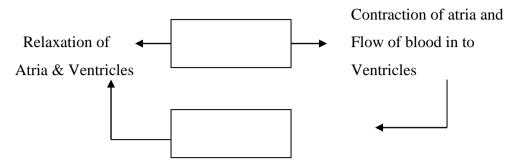
- 1. How the water and minerals are transport to the tip of the long trees?
- 2. Plasma is a medium of blood. How is it differ from blood?
- 3. Imagine why our sensitive body parts covered with fluids. Which fluid covers the heart.
- 4. Is there any relationship between rainfall and transpiration ? (or)

  Generally rain fall is more in forest areas. Is there any relation between forest and rainfall ?
- 5. In long journeys our legs are swollen .what is the reason behind this ? (or)

What is edema? (or)

What is tissue fluid?

6. What is meant by cardiac cycle. (or)

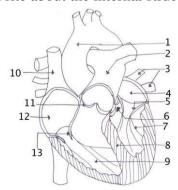


Fill this flow chart.

- 7. What did you observe while you were doing root pressure experiment?
- 8. In India many women and children are suffered with anemia. What are the reasons and for this what precautions do you take ?
- 9. Platelets → thrombokinase → Prothrombin → thrombin fibrinogen → fibrin explain this?
- 10. Write a short notes on hemophilia
- Human circulatory system is differ from fish circulatory system. Write the differences between these two systems.
- 12. Generally B.P is measured from hands. What is the reason behind this.
- 13. If you get a chance to meet a cardiologist, what Questions you will ask about the functions of heart.
- 14. Why did the lower part of heart wall is thicker than upper part of the wall. Give reasons.

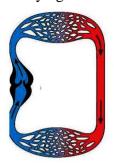
#### 4 Marks Questions

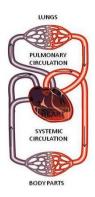
- 1. What are the observations that you identified wile doing aphids experiment
- 2. How can you prove that the water transport through the xylem.
- 3. Write about the internal structure of heart?

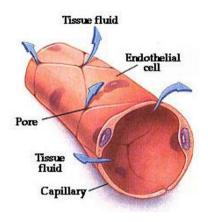


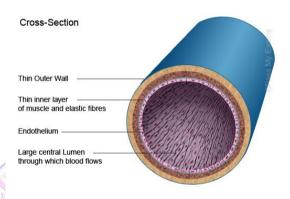
parts identification diagram.

4. Identifying these diagrams.









5. After learning about circulatory system. What measures would you take to control your B.P.