

1. Body, clots.
2. Formed elements, 45, plasma, bilirubin, cholesterol, viscosity.
3. Oxygen, hemoglobin, heme or hemoglobin, erythropoietin, nuclei, spleen, liver.
4. Megakaryocytes.
5. Platelets, prothrombin activator, prothrombin, calcium, amino acid chains, fibrin, plasmin.
6. Osmotic, tissue, higher, lymph.
7. Mononuclear, granular, antibodies, red bone marrow.
8. 1d, 2f, 3a/g, 4c, 5b, 6e, 7m, 8l, 9a/g, 10k, 11h.
9. Phagocytic, make antibodies
10. Platelets: check mark, prothrombin: check mark, fibrinogen: check mark, thromboplastin: x, * thrombin: x, * fibrin threads: x
11. A: receive from A, O donate to A, AB
 B: receive from B, O donate to B, AB
 AB: receive from A, B, AB, O donate to AB
 O: receive from O donate to A, B, AB, O

Blood Vessels

1. Pulmonary, vena cava, pulmonary arteries, deoxygenated, aorta, inferior vena cava.
2. Coronary artery, aortic semilunar valve, hepatic portal, villi, liver, hepatic
3. A. arteries – pump blood away from heart. B. veins pump blood to heart C. capillaries for exchange.
4. Elastic, smooth.
5. Squamous, gases, diffuse, sphincter.
6. Venules, thin, valves, reservoir
- 7.

Blood vessel	Function	# layers	Valves	Cause of blood flow	Blood velocity	Oxy/deoxy
Arteries	Away from heart	3	No	Blood pressure	Fast	Oxy – system Deoxy- pulm
Capillaries	Exchange	1	No	Blood pressure & osmotic pressure	Slow	both
veins	To heart	3	yes	Skeletal muscle and valves	slow	Oxy- pul Deoxy- system

8. A. a and c. B. d Diagram: a = arterial, b=venous, c= oxygen, d=carbon dioxide/wastes, e=plasma proteins.

Heart

1. 1=superior vena cava, 2=aorta, 3=sinoatrial node, 4=right atrium, 5=atrioventricular node, 6=inferior vena cava, 7=tricuspid valve, 8=right ventricle, 9=pulmonary artery or pulmonary trunk, 10=pulmonary vein, 11=left atrium, 12=bicuspid valve, 13=semilunar valve, 14=left ventricle, 15=septum, 16=semilunar valve.
2. Myocardium, pericardium, atrioventricular, tricuspid, mitral, pulmonary, aortic.
3. Pulmonary artery, semi lunar, aorta, aortic semilunar valve, deoxygenated, left.
4. Vena cava, right atrium, tricuspid, right ventricle, semilunar, lungs, carbon dioxide, left atrium, pulmonary veins, tricuspid, left ventricle, semi lunar, aorta.
5. 1=13, 2=9, 3=12, 4=10, 5=7, 6=6, 7=5, 8=8, 9=3, 10=2, 11=4, 12=11, 13=1
6. Systolic pressure, diastolic pressure, veins, decrease, capillary, skeletal.
7. A-V valves, ventricles, semi-lunar, leaky valves.
8. I=atrial contraction, II=ventricular contraction, III= ventricular relaxation
9. Sinoatrial, ventricles, EKG
10. Muscular, nervous, nodal tissue, SA, 0.85, atrioventricular, AV bundle, Purkinje, ventricles, medulla, resting state, increased.
11. Systole, diastole, AV, semi lunar, pulse.
12. A=O, B=F, C=A, D=E, E=G, F=K, G=M, H=C, I=L, J=H, K=N, L=B, M=J. N=D, O=P, P=I

Multiple Choice.

- 1.a, 2.d, 3.a, 4.d, 5.d, 6.a, 7.b, 8.b, 9.a, 10.b, 11.c, 12.d, 13.c, 14.d, 15.b