

Sample Questions

1. Blood flows from the right ventricle into the _____.
 - a. Pulmonary trunk
 - b. Superior vena cava
 - c. Pulmonary veins
 - d. Coronary artery
 - e. Right atrium
2. Blood returning from the pulmonary part of the circulatory system enters the _____ of the heart.
 - a. Right atrium
 - b. Right ventricle
 - c. Sinus venosus
 - d. Left ventricle
 - e. Left atrium
3. Blood vessels carrying blood away from the heart are called:
 - a. Arteries
 - b. Capillaries
 - c. Coronaries
 - d. Lymphatics
 - e. Veins
4. Heart muscle is also called _____.
 - a. Endothelium
 - b. Endocardium
 - c. Epicardium
 - d. Myocardium
 - e. Visceral pericardium
5. The correct sequence of parts that function to carry cardiac impulses is:
 - a. AV node → SA node → Purkinje fibers → Atrioventricular bundle
 - b. AV node → Atrioventricular bundle → Purkinje fibers → SA node
 - c. SA node → Purkinje fibers → AV node → Atrioventricular bundle
 - d. SA node → AV node → Atrioventricular bundle → Purkinje fibers
 - e. Atrioventricular bundle → SA node → AV node → Purkinje fibers
6. The cusps of the atrioventricular (AV) valves are anchored to the papillary muscles by the:
 - a. Chordae tendinae
 - b. Coronary sinus
 - c. Fossa ovalis
 - d. Intercalated discs
 - e. pericardium

7. The layer of serous membrane that covers the heart and lies closest to the sternum is the _____.
 - a. Endocardium
 - b. Epicardium
 - c. Myocardium
 - d. Parietal pericardium
 - e. Visceral pericardium

8. The mitral valve is on the same side of the heart as the _____.
 - a. Superior vena cava
 - b. Tricuspid valve
 - c. Pulmonary semilunar valve
 - d. Opening of the coronary sinus
 - e. Aortic semilunar valve

9. The product of the stroke volume and the heart rate is known as the _____.
 - a. Blood pressure
 - b. Cardiac output
 - c. Cardiac reserve
 - d. End-diastolic volume
 - e. End-systolic volume

10. The tricuspid valve prevents flow of blood from the _____.
 - a. Right ventricle to the right atrium
 - b. Pulmonary trunk to the right ventricle
 - c. Right ventricle to the pulmonary arch
 - d. Left ventricle to the left atrium
 - e. Right atrium into the left atrium

11. The umbilical vein carries:
 - a. Metabolic wastes and carbon dioxide from the fetus to the placenta
 - b. Oxygen and foods from the fetus to the placenta
 - c. From the navel directly into the inferior vena cava
 - d. Oxygen and foods from the placenta to the fetus

12. What is the circulatory route that runs from the digestive tract to the liver called?
 - a. Coronary circuit
 - b. Hepatic portal system
 - c. Pulmonary circuit
 - d. Renal portal system
 - e. Systemic circuit

13. What is the first branch off the base of the aorta?
 - a. Brachiocephalic artery
 - b. Left common carotid artery
 - c. Right common carotid artery
 - d. Left subclavian artery
 - e. Coronary artery

14. Name the conductile tissue in the heart located on the posterior wall of the right atrium that has the highest rate of depolarization in the heart.
 - a. Medulla oblongata
 - b. Atrioventricular (AV) node
 - c. Sinoatrial (SA) node
 - d. Cranial nerve X – Vagus nerve
 - e. Both a. and d. above are correct

15. What is the portion of the ECG that indicates ventricular repolarization?
 - a. P wave
 - b. QRS complex
 - c. R spike
 - d. T wave
 - e. P-Q interval

16. What is the specific name of the tissue that lines all the chambers of the heart?
 - a. Endothelium
 - b. Endocardium
 - c. Simple cuboidal epithelium
 - d. Simple squamous epithelium

17. When listening to the heart sounds (frequently given as lub, dup), _____.
 - a. The first sound is caused by closure of the tricuspid valve, the second by closure of the mitral valve
 - b. The first sound is caused by closure of the mitral valve, the second by closure of the tricuspid valve
 - c. Both sounds are caused by contraction of the ventricles, followed by contraction of the atria
 - d. The first sound is caused by closure of the AV valves, the second by closure of the semilunar valves
 - e. The first sound is caused by contraction of the Purkinje fibers, the second by contraction of the papillary muscles

18. Which of the following fetal structures carries the most oxygenated blood?
- Ductus arteriosus
 - Umbilical arteries
 - Ductus venosus
 - Foramen ovale
 - Umbilical vein
19. You are not an athlete and you are not physical fit. If you suddenly partake in physical exercise, then the increased demands of such vigorous exercise on your body are met primarily by:
- Increased stroke volume
 - Increased heart rate
 - Increased blood volume
 - All of a., b., and c. above are correct
 - Only b. and c. above are correct

Answers:

- Pulmonary trunk.*
- Left atrium.*
- Arteries.*
- Myocardium.*
- SA node → AV node → AVbundle → Purkinji fibers.*
- Chordae tendinae.*
- Parietal pericardium.*
- Aortic semilunar valve.*
- Cardiac output.*
- Right ventricle to right atrium.*
- Oxygen and food from the placenta to the fetus.*
- Hepatic portal system.*
- Coronary artery.*
- Sinoatrial (SA Node).*
- T-wave.*
- Endocardium.*
- First sound is caused by closure of the AV valves , second is caused by closure of emilunar valves.*
- Umbilical vein.*
- Increased heart rate.*