



<b>Name of the Bundle</b>	Proficient Bundle V2	<b>Subject</b>	Competitive Exams Training (Science & Geography)
<b>Topic</b>	Circulatory System	<b>Last updated on</b>	30 January 2025

## Multiple choice questions (MCQ) on Circulatory System:

1. The first human heart transplant was performed in \_\_\_\_\_.

- a. 1972
- b. 1967
- c. 1959
- d. 1955

**Ans: b. 1967**

2. How many chambers does a mammalian heart have?

- a. 4
- b. 1
- c. 2
- d. 3

**Ans: a. 4**

3. Which vein brings clean blood from the lungs into the heart?

- a. Renal Vein
- b. Pulmonary Vein
- c. Vena Cava
- d. Hepatic Vein

**Ans: b. Pulmonary Vein**

4. Heart is devoid of \_\_\_\_\_.

- a. Cardiac muscle
- b. Involuntary muscle
- c. Voluntary muscle
- d. Smooth muscle

**Ans: c. Voluntary muscle**



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5. The pacemaker of the heart is characterized by \_\_\_\_\_.

- a. Bundle of his
- b. Arch of aorta
- c. SA node
- d. AV node

**Ans: c. SA node**

6. Inadequate pumping action of the heart is known as \_\_\_\_\_.

- a. Cardiogenic shock
- b. Obstructive shock
- c. Anaphylactic shock
- d. Septic shock

**Ans: a. Cardiogenic shock**

7. Which of the following is a heart-shaped pelvis?

- a. Android
- b. Platypelloid
- c. Anthropoid
- d. Gynecoid

**Ans: a. Android**

8. \_\_\_\_\_ carries oxygenated blood from the lungs to the heart.

- a. Aorta
- b. Renal artery
- c. Pulmonary artery
- d. Vena Cava

**Ans: c. Pulmonary artery**



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9. Which chamber of the human heart receives oxygen-rich blood from the lungs?

- a. Left Atrium
- b. Right Ventricle
- c. Right Atrium
- d. Left Ventricle

**Ans: a. Left Atrium**

10. Which of the following organisms has a 2-chambered heart?

- a. Human beings
- b. Sparrows
- c. Monkey
- d. Fishes

**Ans: d. Fishes**

11. When does the right ventricle contract, and blood is pumped out?

- a. Superior vena cava
- b. Dorsal aorta
- c. Pulmonary aorta
- d. Pulmonary veins

**Ans: c. Pulmonary aorta**

12. Who operates the first heart transplant procedure?

- a. William Harvey
- b. Watson
- c. Christian Bernard
- d. Khorana

**Ans: c. Christian Bernard**



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13. Which of the following arteries does not carry oxygenated blood?

- a. Systemic
- b. Hepatic
- c. Pulmonary
- d. Cardiac

**Ans: c. Pulmonary**

14. Which of the following has a closed-type circulatory system?

- a. Cockroach
- b. Fish
- c. Mollusca
- d. Scorpion

**Ans: b. Fish**

15. By which type of tissue the atrioventricular septum composed of?

- a. Cartilage
- b. Fibrous tissue
- c. Osteocytes
- d. Mucous membrane

**Ans: b. Fibrous tissue**

16. Which of these structures is nearest to the atrioventricular node?

- a. SAN
- b. Left ventricle
- c. Atrio-ventricular septum
- d. Aorta

**Ans: c. Atrio-ventricular septum**



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17. What is the approximate weight of the human heart?

- a. 250- 300 gm
- b. 250- 350 gm
- c. 350- 450 gm
- d. 300- 400 gm

**Ans: a. 250- 300 gm**

18. Which of the following is NOT a component of the circulatory system?

- a. Capillaries
- b. Villi
- c. Veins
- d. Arteries

**Ans: b. Villi**

19. A double membrane sac known as the \_\_\_\_\_ protects the human heart.

- a. Plura
- b. Kura
- c. Epicardium
- d. Pericardium

**Ans: d. Pericardium**

20. Which of the following is the largest artery of the human body?

- a. Coronary arteries
- b. Pulmonary artery
- c. Aorta
- d. None of the above

**Ans: c. Aorta**



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21. What components serve as doors to regulate the heart's blood flow?

- a. Valves
- b. Heart dams
- c. Kidneys
- d. Chambers

**Ans: a. Valves**

22. Which among the following carries the blood from the lungs to the left auricle?

- a. Pulmonary vein
- b. Aorta
- c. Pulmonary artery
- d. Coronary artery

**Ans: a. Pulmonary vein**

23. Amphibians and Reptiles have \_\_\_\_\_ chambered hearts.

- a. 2
- b. 4
- c. 3
- d. 1

**Ans: c. 3**

24. Crocodiles have \_\_\_\_\_ chambers in their heart.

- a. 2
- b. 4
- c. 3
- d. 1

**Ans: b. 4**



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25. Cockroach have \_\_\_\_\_ chambers in their heart.

- a. 6
- b. 14
- c. 18
- d. 13

**Ans: d. 13**

26. \_\_\_\_\_ is responsible for carrying impure blood to the human heart.

- a. Vena Cava
- b. Pulmonary veins
- c. Pulmonary arteries
- d. Aorta

**Ans: a. Vena Cava**

27. \_\_\_\_\_ carries blood from heart to kidneys.

- a. Renal vein
- b. Renal artery
- c. Vena cava
- d. Coronary artery

**Ans: b. Renal artery**

28. \_\_\_\_\_ is not the valve of the heart.

- a. Tricuspid
- b. Mitral
- c. Aortic
- d. Septum

**Ans: d. Septum**



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29. The right portion of the human heart receives \_\_\_\_\_ blood.

- a. Pure
- b. Impure
- c. Mixed
- d. Oxygen

**Ans: b. Impure**

30. Who invented the first ECG?

- a. Willem Einthoven
- b. Edward Jenner
- c. Charles Wood
- d. Karl Benz

**Ans: a. Willem Einthoven**

31. Which structure in the heart prevents the backflow of blood into the right ventricle?

- a. Tricuspid valve
- b. Pulmonary valve
- c. Bicuspid valve
- d. Aortic valve

**Ans: b. Pulmonary valve**

32. The \_\_\_\_\_ is the largest vein in the human body.

- a. Vena cava
- b. Femoral Vein
- c. Jugular Vein
- d. Pulmonary Vein

**Ans: a. Vena cava**



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33. Which instrument measures the heart's electrical potential?

- a. Stethoscope
- b. Electrocautery
- c. Electrocardiogram
- d. Sphygmomanometer

**Ans: c. Electrocardiogram**

34. Which of the following is not a part of the circulatory system?

- a. Large intestine
- b. Blood
- c. Vessel
- d. Heart

**Ans: a. Large intestine**

35. What is the correct description of the location of the heart in relation to the ribs?

- A) The heart is located above the second rib.
  - B) The heart is located between the second and fifth ribs.
  - C) The heart is located below the fifth rib.
  - D) The heart is located on the left side of the body only.
- 
- a. 1 and 2
  - b. 2 and 4
  - c. 2 and 3
  - d. 1 and 4

**Ans: b. 2 and 4**



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36. Match the columns.

Group-I

Group-B

I. Heart

A. Carries oxygenated blood

II. Arteries

B. Pumping organ

III. Veins

C. Carries deoxygenated blood

- a. I-A; II-C: III-B
- b. I-B; II-A: III-C
- c. I-A: II-B: III-C
- d. I-B: II-C: III-A

**Ans: b. I-B; II-A: III-C**

37. In the human circulatory system, all veins carry blood toward the heart. What is the difference between the pulmonary vein and other veins?

- a. Blood flows in the pulmonary vein with pressure
- b. The pulmonary vein has a small lumen
- c. The pulmonary vein carries oxygenated blood
- d. A pulmonary vein has no valve

**Ans: c. The pulmonary vein carries oxygenated blood**



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38. Which of the following correctly describes the pathway of blood circulation in the human body?

- Left ventricle → Aorta → Body tissues → Right atrium → Right ventricle → Lungs → Left atrium
- Right ventricle → Aorta → Lungs → Left atrium → Left ventricle → Body tissues → Right atrium
- Right ventricle → Pulmonary artery → Lungs → Left atrium → Left ventricle → Aorta → Body tissues → Right atrium
- Left atrium → Pulmonary vein → Lungs → Left ventricle → Aorta → Body tissues → Right ventricle

**Ans: c. Right ventricle → Pulmonary artery → Lungs → Left atrium → Left ventricle → Aorta → Body tissues → Right atrium**