



**D.PHARMA EXIT EXAM**

# ARAMBH SERIES

**SUBJECT**

**HUMAN ANATOMY  
& PHYSIOLOGY**

**TIME-  
09:30 A.M**



**40 QUESTIONS WITH DETAILED EXPLANATION**

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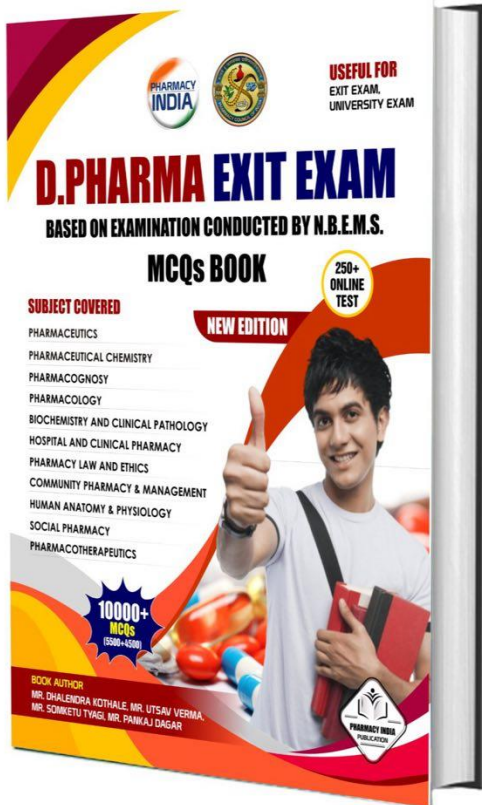
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HUMAN ANATOMY

&

PHYSIOLOGY

CARDIOVASCULAR  
SYSTEM

1. Where is the Bundle of His located?

- A) In the right atrium
- B) In the interventricular septum
- C) In the left atrium
- D) At the apex of the heart



1. Where is the Bundle of His located?

A) In the right atrium

**B) In the interventricular septum**

C) In the left atrium

D) At the apex of the heart





## 2. What is the role of Purkinje fibers?

- A) To generate impulses
- B) To distribute impulses throughout the ventricles
- C) To delay conduction
- D) To connect atria and ventricles





## 2. What is the role of Purkinje fibers?

A) To generate impulses

**B) To distribute impulses throughout the ventricles**

C) To delay conduction

D) To connect atria and ventricles



### 3. Which part of the conduction system has the fastest rate of depolarization?

- A) AV node
- B) Bundle of His
- C) SA node
- D) Purkinje fibers



### 3. Which part of the conduction system has the fastest rate of depolarization?

- A) AV node
- B) Bundle of His
- C) SA node**
- D) Purkinje fibers



4. The electrical impulse travels from the SA node to the AV node through which structure?

- A) Interventricular septum
- B) Bundle branches
- C) Internodal pathways
- D) Purkinje network



4. The electrical impulse travels from the SA node to the AV node through which structure?

- A) Interventricular septum
- B) Bundle branches
- C) Internodal pathways**
- D) Purkinje network



5. Which of the following structures is responsible for the contraction of the ventricles?

- A) SA node
- B) AV node
- C) Bundle of His
- D) Purkinje fibers



5. Which of the following structures is responsible for the contraction of the ventricles?

- A) SA node
- B) AV node
- C) Bundle of His
- D) Purkinje fibers**





## 6. What happens during the refractory period of cardiac muscle cells?

- A) They are fully excitable
- B) They cannot respond to another stimulus
- C) They can respond to a stronger stimulus
- D) They are hyperpolarized



6. What happens during the refractory period of cardiac muscle cells?

A) They are fully excitable

**B) They cannot respond to another stimulus**

C) They can respond to a stronger stimulus

D) They are hyperpolarized



## 7. Which structure acts as a backup pacemaker if the SA node fails?

- A) AV node
- B) Bundle of His
- C) Right atrium
- D) Purkinje fibers



7. Which structure acts as a backup pacemaker if the SA node fails?

A) AV node

B) Bundle of His

C) Right atrium

D) Purkinje fibers



8. The conduction system of the heart is primarily made up of which type of tissue?

- A) Epithelial tissue
- B) Cardiac muscle tissue
- C) Connective tissue
- D) Nervous tissue



8. The conduction system of the heart is primarily made up of which type of tissue?

- A) Epithelial tissue
- B) Cardiac muscle tissue**
- C) Connective tissue
- D) Nervous tissue



## 9. What is the function of the fibrous skeleton of the heart in relation to the conduction system?

- A) Facilitate blood flow
- B) Isolate the atria from the ventricles
- C) Support valve function
- D) Generate electrical impulses



9. What is the function of the fibrous skeleton of the heart in relation to the conduction system?

- A) Facilitate blood flow
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- C) Support valve function
- D) Generate electrical impulses





10. The right and left bundle branches conduct impulses to which part of the heart?

- A) Atria
- B) Ventricles
- C) Coronary arteries
- D) Valves



10. The right and left bundle branches conduct impulses to which part of the heart?

A) Atria

**B) Ventricles**

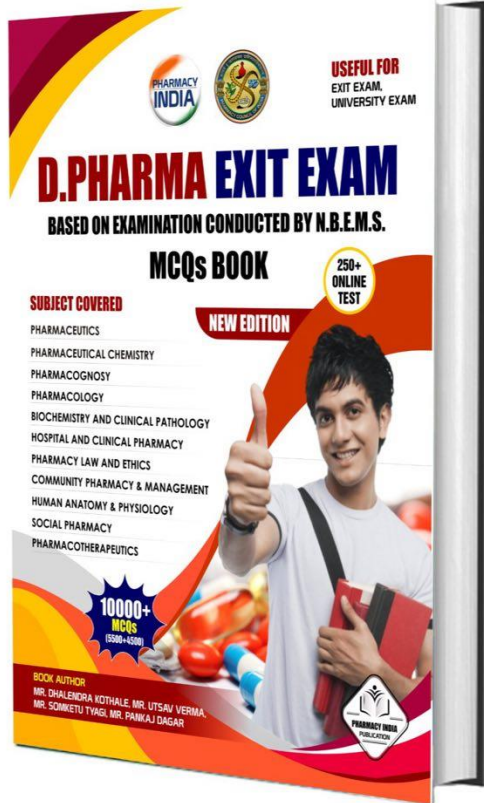
C) Coronary arteries

D) Valves



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**11. Which type of cell is primarily responsible for the conduction of electrical impulses in the heart?**

- A) Myocytes
- B) Pacemaker cells
- C) Endothelial cells
- D) Epithelial cells



**11. Which type of cell is primarily responsible for the conduction of electrical impulses in the heart?**

A) Myocytes

**B) Pacemaker cells**

C) Endothelial cells

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12. Which wave on an ECG represents atrial depolarization?

- A) QRS complex
- B) T wave
- C) P wave
- D) U wave



12. Which wave on an ECG represents atrial depolarization?

A) QRS complex

B) T wave

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**13. Which of the following conditions can cause a heart block?**

- A) Ischemia
- B) High blood pressure
- C) Electrolyte imbalances
- D) All of the above



**13. Which of the following conditions can cause a heart block?**

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- B) High blood pressure
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- D) All of the above**



## 14. What would happen if the AV node is blocked?

- A) Heart rate would increase significantly
- B) Atria and ventricles would beat independently
- C) Heart rate would remain unchanged
- D) Blood flow would stop



## 14. What would happen if the AV node is blocked?

- A) Heart rate would increase significantly
- B) Atria and ventricles would beat independently**
- C) Heart rate would remain unchanged
- D) Blood flow would stop



15. In which part of the conduction system is the heart rate influenced by the autonomic nervous system?

- A) SA node
- B) Bundle of His
- C) Purkinje fibers
- D) AV node



15. In which part of the conduction system is the heart rate influenced by the autonomic nervous system?

A) SA node

B) Bundle of His

C) Purkinje fibers

D) AV node



**17. Which of the following conditions is characterized by chest pain due to reduced blood flow to the heart?**

- A) Arrhythmia
- B) Angina pectoris
- C) Myocardial infarction
- D) Heart failure



**17. Which of the following conditions is characterized by chest pain due to reduced blood flow to the heart?**

A) Arrhythmia

**B) Angina pectoris**

C) Myocardial infarction

D) Heart failure





18. What is a major symptom of a myocardial infarction (heart attack)?

- A) Severe headache
- B) Dizziness
- C) Shortness of breath
- D) Both B and C



18. What is a major symptom of a myocardial infarction (heart attack)?

- A) Severe headache
- B) Dizziness
- C) Shortness of breath
- D) Both B and C**



## 19. Which lifestyle change can significantly reduce the risk of cardiovascular disease?

- A) Increased smoking
- B) Regular physical activity
- C) High-fat diet
- D) Excessive alcohol consumption



**19. Which lifestyle change can significantly reduce the risk of cardiovascular disease?**

- A) Increased smoking
- B) Regular physical activity**
- C) High-fat diet
- D) Excessive alcohol consumption



20. Which diagnostic test is often used to assess the electrical activity of the heart?

- A) MRI
- B) CT scan
- C) Electrocardiogram (ECG)
- D) Echocardiogram



20. Which diagnostic test is often used to assess the electrical activity of the heart?

A) MRI

B) CT scan

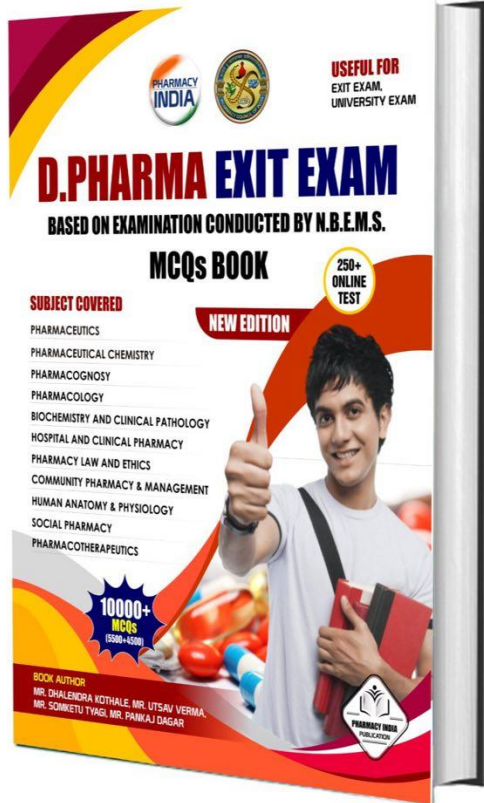
**C) Electrocardiogram (ECG)**

D) Echocardiogram



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21. Which of the following can be a complication of untreated hypertension?

- A) Diabetes
- B) Stroke
- C) Asthma
- D) Obesity



21. Which of the following can be a complication of untreated hypertension?

A) Diabetes

**B) Stroke**

C) Asthma

D) Obesity



## 22. What is the primary function of the heart valves?

- A) To generate electrical impulses
- B) To regulate blood flow direction
- C) To increase heart rate
- D) To pump blood



## 22. What is the primary function of the heart valves?

- A) To generate electrical impulses
- B) To regulate blood flow direction**
- C) To increase heart rate
- D) To pump blood



## 23. What lifestyle factor is most associated with an increased risk of heart disease?

- A) Regular exercise
- B) High stress levels
- C) Adequate sleep
- D) Healthy diet



**23. What lifestyle factor is most associated with an increased risk of heart disease?**

A) Regular exercise

**B) High stress levels**

C) Adequate sleep

D) Healthy diet



**24. Which of the following is an effect of smoking on cardiovascular health?**

- A) Decreased heart rate
- B) Increased blood vessel elasticity
- C) Elevated blood pressure
- D) Improved circulation

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- A) Decreased heart rate
- B) Increased blood vessel elasticity
- C) Elevated blood pressure**
- D) Improved circulation





**25. Which condition is often referred to as "the silent killer" due to its asymptomatic nature?**

- A) Angina
- B) Heart failure
- C) Hypertension
- D) Arrhythmia



**25. Which condition is often referred to as "the silent killer" due to its asymptomatic nature?**

- A) Angina
- B) Heart failure
- C) Hypertension**
- D) Arrhythmia



**26. What is the primary purpose of the right ventricle?**

- A) Pump oxygenated blood to the body
- B) Pump deoxygenated blood to the lungs
- C) Receive blood from the lungs
- D) Control heart rhythm



**26. What is the primary purpose of the right ventricle?**

A) Pump oxygenated blood to the body

**B) Pump deoxygenated blood to the lungs**

C) Receive blood from the lungs

D) Control heart rhythm



## 27. What is the main function of the pulmonary veins?

- A) Carry oxygenated blood from the lungs to the heart
- B) Carry deoxygenated blood to the lungs
- C) Supply blood to the heart muscle
- D) Carry blood to the aorta



**27. What is the main function of the pulmonary veins?**

**A) Carry oxygenated blood from the lungs to the heart**

B) Carry deoxygenated blood to the lungs

C) Supply blood to the heart muscle

D) Carry blood to the aorta



## 28. What is the role of the interventricular septum?

- A) Separate the right and left atria
- B) Separate the right and left ventricles
- C) Control heart rate
- D) Pump blood



## 28. What is the role of the interventricular septum?

- A) Separate the right and left atria
- B) Separate the right and left ventricles**
- C) Control heart rate
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**29. The heart's ability to contract without external stimulation is known as:**

- A) Autonomic function
- B) Automaticity
- C) Myogenic function
- D) Neurogenic control



**29. The heart's ability to contract without external stimulation is known as:**

A) Autonomic function

**B) Automaticity**

C) Myogenic function

D) Neurogenic control



**30. Which layer of the heart is in direct contact with the blood?**

- A) Endocardium
- B) Myocardium
- C) Pericardium
- D) Epicardium



**30. Which layer of the heart is in direct contact with the blood?**

**A) Endocardium**

B) Myocardium

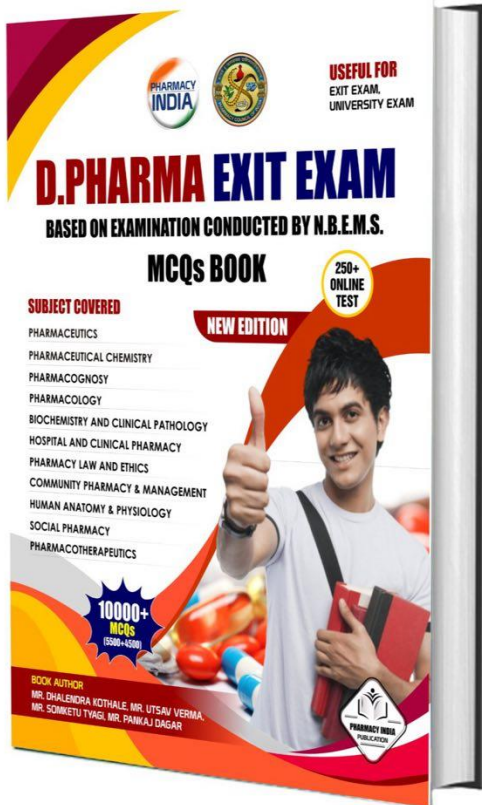
C) Pericardium

D) Epicardium



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