

PHYSIOLOGY QUESTION BANK – CARDIOVASCULAR SYSTEM (TNMGRMU)

BPT / Allied Health Sciences | University Examination Pattern

1. STRUCTURE AND PROPERTIES OF CARDIAC MUSCLE

Very Short Answer (2 Marks – Knowledge)

1. Define cardiac muscle.
2. Mention any two properties of cardiac muscle.
3. What is functional syncytium?

Short Answer (5 Marks – Understanding)

1. Describe the structure of cardiac muscle.
2. Explain properties of cardiac muscle.

Long Answer (10 Marks – Analysis)

1. Describe the structure and properties of cardiac muscle with suitable diagrams.
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2. CARDIAC CYCLE, CONDUCTING SYSTEM AND ECG

Very Short Answer (2 Marks – Knowledge)

1. Define cardiac cycle.
2. Name the components of conducting system of heart.
3. What is ECG?

Short Answer (5 Marks – Understanding)

1. Describe phases of cardiac cycle.
2. Explain the conducting system of heart.
3. Write a note on ECG waves.

Long Answer (10 Marks – Analysis)

1. Describe cardiac cycle with pressure–volume changes.
 2. Explain conducting system of heart and genesis of ECG.
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3. HEART SOUNDS

Very Short Answer (2 Marks – Knowledge)

1. What are heart sounds?
2. Name the heart sounds.

Short Answer (5 Marks – Understanding)

1. Describe the origin of first and second heart sounds.
2. Write a note on added heart sounds.

Long Answer (10 Marks – Analysis)

1. Describe heart sounds and their clinical significance.
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4. HEART RATE AND ITS REGULATION

Very Short Answer (2 Marks – Knowledge)

1. Define heart rate.
2. State normal heart rate.

Short Answer (5 Marks – Understanding)

1. Explain factors affecting heart rate.
2. Describe neural regulation of heart rate.

Long Answer (10 Marks – Analysis)

1. Describe regulation of heart rate.

5. CARDIAC OUTPUT AND ITS REGULATION

Very Short Answer (2 Marks – Knowledge)

1. Define cardiac output.
2. State normal value of cardiac output.

Short Answer (5 Marks – Understanding)

1. Explain factors affecting cardiac output.
2. Describe Frank–Starling law of heart.

Long Answer (10 Marks – Analysis)

1. Describe cardiac output and its regulation.
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6. BLOOD PRESSURE AND ITS REGULATION

Very Short Answer (2 Marks – Knowledge)

1. Define blood pressure.
2. State normal blood pressure.

Short Answer (5 Marks – Understanding)

1. Explain factors affecting blood pressure.
2. Describe short-term regulation of blood pressure.

Long Answer (10 Marks – Analysis)

1. Describe regulation of blood pressure.
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7. REGIONAL CIRCULATION

(Coronary, Pulmonary, Renal, Cerebral)

Very Short Answer (2 Marks – Knowledge)

1. Define coronary circulation.
2. What is cerebral circulation?

Short Answer (5 Marks – Understanding)

1. Describe coronary circulation.
2. Explain pulmonary circulation.
3. Write a note on renal circulation.
4. Describe cerebral circulation.

Long Answer (10 Marks – Analysis)

1. Describe regional circulation with emphasis on coronary and cerebral circulation.
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8. EFFECT OF EXERCISE ON CARDIOVASCULAR SYSTEM

Very Short Answer (2 Marks – Knowledge)

1. Define exercise.
2. Mention any two cardiovascular changes during exercise.

Short Answer (5 Marks – Understanding)

1. Explain acute effects of exercise on CVS.
2. Describe chronic effects of exercise on heart.

Long Answer (10 Marks – Evaluation)

1. Describe effects of exercise on cardiovascular system.