

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
TELANGANA STATE, WARANGAL – 506 002
B.Sc. (ALLIED HEALTH SCIENCES) SECOND YEAR DEGREE EXAMINATIONS:
FEBRUARY, 2026

CARDIAC AND CARDIOVASCULAR TECHNOLOGY

PAPER-II

ELECTROCARDIOGRAPHY, EXERCISE TESTING & HOLTER ANALYSIS

Time: 3 Hours

Max Marks: 80

Note: Draw diagrams whenever necessary.

Write an essay on any TWO of the following questions:

2 X 10 = 20

1. What is Holter analysis? Explain the indications of Holter analysis. What is sinus tachycardia and bradycardia. Explain them and list out causes of sinus tachycardia and bradycardia. (2+2+1+2+3)
2. Determination of electrical axis of ECG.
3. Describe the types of cardiac failure, causes and management.

Write a short note on any FIVE of the following:

5 X 6 = 30

4. What is stress testing? Write briefly the instructions you will give to patient who is to undergo treadmill test.
5. In temporary pacing for bradycardia, which chamber is paced? How do you confirm the pacemaker in that chamber? Draw ECG in V₁ and V₆ of a temporary pacing. (1+2+3)
6. Write briefly the criteria to interpret a treadmill test as:
a) Positive and b) Negative for Ischemia.
7. Describe briefly the three types of all blocks with diagrams for ECG.
8. ECG changes in Hyperkalaemia.
9. Describe briefly the conduction system of the heart.

Write briefly on the following:

10 X 3 = 30

10. Draw a diagram of the hexaxial system in ECG.
11. What is Unstable Angina?
12. How do you determine axis of ECG? Explain any one method.
13. Adenosine- what it is? What is it used for?
14. Image intensifier- what is it? What is it used for?
15. Commonly used wires in the cath lab and its uses
16. Draw a normal ECG and label its parts. Describe Atrial fibrillation.
17. ECG changes in hypothyroidism.
18. Tirofiban- what is it? What is it used for in the cath lab?
19. Wolf Parkinson white syndrome.
