

PAPER CODE: AHS13010

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
TELANGANA STATE, WARANGAL – 506 002**

**B.Sc. (Allied Health Sciences), SECOND YEAR DEGREE SUPPLEMENTARY EXAMINATIONS:
OCTOBER 2025**

CARDIAC AND CARDIOVASCULAR TECHNOLOGY

PAPER I

**APPLIED ANATOMY, PHYSIOLOGY AND PHARMACOLOGY RELATED TO
CARDIOVASCULAR TECHNOLOGY**

Time: 3 Hours

Max Marks: 80

Note: Draw diagrams whenever necessary with Black Ball point pen /HB pencil /any dark
Color pencil.

Write essay on any TWO of the following questions:

2 X 10 = 20

1. Draw and label diagram of Coronary arteries with its branches.
2. Describe Vascular smooth muscle mechanism of contraction.
3. Lipid lowering drugs.

Write a short note on any FIVE of the following:

5 X 6 = 30

4. Types of ASD (Atrial Septal Defects).
5. Renal circulation.
6. Define Shock. Drugs used for cardiogenic shock management.
7. Pacemaker of conduction system of heart.
8. Noradrenaline drug uses.
9. Beta-blocker drugs in cardiology.

Write briefly on the following:

10 X 3 = 30

10. Pericardial layers.
11. Acitrom diet.
12. Principles of gas exchange in lungs.
13. Preparation of patient before measuring blood pressure.
14. Risk factors for coronary artery disease.
15. Cardiac causes of syncope.
16. Cardiac cycle.
17. Blood components.
18. Pleura.
19. Pulmonary circulation.
