

PAPER CODE: AHS13012

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

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

**CARDIAC AND CARDIOVASCULAR TECHNOLOGY
PAPER III
ECHO CARDIOGRAPHY, DOPPLER ECHO CARDIOGRAPHY, TEE,
CONTRAST ECHO**

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. Describe the indication and procedure of dobutamine stress echocardiography
2. Describe the Transoesophageal echocardiography.
3. Principles of ultrasound and Doppler.

Write a short note on any FIVE of the following:

5 X 6 = 30

4. PR interval and its importance.
5. Ventricular fibrillation.
6. 2D and doppler assessment of prosthetic valves.
7. Left and right bundle branch block.
8. Ventricular tachycardia.
9. Calculation of ejection fraction of left ventricle by 2D Echo.

Write briefly on the following:

10 X 3 = 30

10. Sinus bradycardia.
11. Diltiazem.
12. Axis on ECG.
13. Diuretics.
14. Maintenance of ECG machine.
15. Rate on ECG.
16. ECG in anterior wall STEMI.
17. Myocardial speckle.
18. Cor pulmonale.
19. QT interval.
