

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University)**

**B.SC (CARDIAC TECHNOLOGY) & M.Sc(INTEGRATED CARDIAC
TECHNOLOGY) DEGREE EXAMINATION - September 2021**

Third Year

ECHOCARDIOGRAPHY

Three Hours

Maximum: 75 marks

I. Write an essay on any ONE of the following: (1 x 20 = 20)

1. Assessment of Prosthetic valve evaluation by echocardiography.
2. Define Mitral stenosis. Discuss in detail about causes, 2D, M mode and Doppler features of Mitral stenosis.

II. Write short notes on any TWO of the following: (2 x 10 = 20)

3. 2D, M mode, doppler and colour flow imaging in Aortic Regurgitation.
4. Assessment of Left ventricular Diastolic function.
5. 2D, M mode, doppler and colour flow imaging in Mitral Regurgitation.
6. Discuss about Infective Endocarditis in detail.

III. Write short answers on any SEVEN of the following: (7 x 5 = 35)

7. Echo findings for Atrial Septal Defect.
8. Bicuspid aortic valve.
9. Echo features of Dilated Cardiomyopathy.
10. Echo features of Pericardial Effusion.
11. Difference between Pulsed and Continuous wave.
12. Patent Ductus Arteriosus.
13. Continuity Equation.
14. Proximal Isovelocity Surface Area.
15. dp/dt .
16. Pressure Half Time
