

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

**B.Sc. (CARDIAC TECHNOLOGY) & M.Sc (INTEGRATED
PROGRAMS IN CARDIAC TECHNOLOGY) DEGREE
EXAMINATION - August 2019**
Third Year

ECHOCARDIOGRAPHY

Time: Three hours

Maximum: 75 marks

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

1. Classification of cardiomyopathies. Explain Dilated and Hypertrophic Cardiomyopathy in detail.
2. Explain Transducer Positions and cardiac views in Transthoracic echocardiography with diagrams.

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

3. Evaluation of Prosthetic Valve Regurgitation by Doppler and Color flow imaging.
4. 2 D, M – Mode, Doppler Echocardiography and severity of Aortic stenosis – Explain.
5. Assessment of Ventricular systolic function
6. 2D, M – Mode, Doppler and color flow imaging in Tricuspid Regurgitation.

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

7. Continuous Wave Doppler.
8. Estimation of Regurgitant Volume and Regurgitant Fraction by volumetric method.
9. Dp/ dt
10. Continuity Equation
11. Patient preparation for Transesophageal echocardiography before, during and after the procedure.
12. Echocardiographic appearance of Infective Endocarditis.
13. 2D & Doppler findings in restrictive cardiomyopathy.
14. Classification of Aortic Dissection with diagrams.
15. Types of VSD with diagram.
16. Explain Doppler Echocardiography.