

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

**B.Sc. (CARDIAC TECHNOLOGY) & M.Sc (INTEGRATED
PROGRAMS IN CARDIAC TECHNOLOGY) DEGREE**

EXAMINATION – February 2020

Third Year

ECHOCARDIOGRAPHY

Time: Three hours

Maximum: 75 marks

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

1. Detection of mechanical complications of myocardial infarction by echocardiography.
2. Classification of cardiomyopathies. Explain Dilated and Hypertrophic cardiomyopathy in detail.

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

3. Criteria for severe Aortic Regurgitation by Doppler and Color Flow Imaging.
4. Views used in Transthoracic Echocardiography with diagrams.
5. Estimation of Regurgitant volume and Regurgitation fraction by Proximal Isovelocity Surface Area(PISA).
6. Assessment of Ventricular Diastolic Function.

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

7. LA Myxoma
8. Complications of infective Endocarditis
9. Myocardial Performance Index (MPI)
10. Stroke Volume and Cardiac Output
11. Echocardiographic features in cardiac Tamponade
12. Explain Doppler Echocardiography
13. 2D and Doppler Echocardiography in Tricuspid stenosis
14. Types of Ventricular Septal Defect (VSD) with diagram.
15. Continuity Equation
16. Complications of Transesophageal Echocardiography (TEE)