

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

B.Sc. (CARDIAC TECHNOLOGY) DEGREE EXAMINATION- March 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. Detection of mechanical complications of myocardial infarction by Echocardiography.
2. 2D, M- Mode, Doppler & Color flow imaging and severity of mitral Stenosis- Explain.

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

3. Estimation of Regurgitant Volume and Regurgitant Fraction by Proximal Isovelocity Surface Area (PISA).
4. Criteria for severe aortic regurgitation by Doppler and color flow imaging.
5. Explain 2D, M- Mode, Doppler and color flow imaging in hypertrophic obstructive cardiomyopathy.
6. Explain Transducer Position & Cardiac views in transthoracic echocardiography with diagrams.

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

7. Myocardial performance index.
8. Stroke volume and cardiac output.
9. LA Myxoma.
10. Complications in Transesophageal Echocardiography (TEE).
11. 2D & Doppler Echocardiography in Tricuspid Stenosis.
12. Complications of infective endocarditis.
13. Estimation of Pulmonary Artery Systolic, Diastolic & Mean pressure by using tricuspid regurgitation and pulmonary regurgitation.
14. Echocardiographic features in cardiac tamponade.
15. Explain the classification of diastolic filling pattern.
16. Pulsed- Wave Doppler.