

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

**M.SC.(ECHOCARDIOGRAPHY) DEGREE EXAMINATION – August 2019
First Year**

ECHOCARDIOGRAPHY FOR VALVULAR HEART DISEASE

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

I. Write an Long essay on : **(2 x 20 = 40)**

1. Explain Prosthetic Valve Evaluation in detail.
2. Explain Echocardiographic features in pulmonary artery hypertension and calculating systolic, diastolic and mean pulmonary artery pressures by Doppler.

II. Write short notes on : **(10 x 6 = 60)**

3. Assessing the severity of Aortic Regurgitation by Doppler.
4. Pre and post procedural assessment for pulmonary valvuloplasty
5. Uses of 3 Dimensional echocardiography for mitral valve surgery
6. Doppler Echocardiography in Aortic stenosis
7. Echocardiographic features in organic Tricuspid Valve Stenosis
8. Doppler and colour flow imaging in Mitral stenosis
9. Stroke volume and cardiac output
10. Estimation of regurgitant volume and regurgitation fraction by volumetric method.
11. Echocardiographic features in pulmonary stenosis
12. Mitral valve Prolapse
