

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

**M.SC.(ECHOCARDIOGRAPHY) DEGREE EXAMINATION – February 2020
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 Echocardiographic score used to predict outcome of Mitral balloon Valvuloplasty by WILKINSON'S CRITERIA.
2. Explain the Doppler estimation of Intracardiac pressures.

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

3. Dobutamine Echocardiography in assessing the Severity of Aortic Stenosis.
4. Transvalvular Gradient according to Bernoulli Equation.
5. Pulmonary – Systemic Flow ratio (Q_p/Q_s).
6. Types and normal function of Mechanical Valves.
7. Proximal Isovelocity Surface Area method (PISA) in Mitral Regurgitation.
8. Flail Mitral Valve.
9. Timing of surgery for Valvular Disease.
10. Assessing the severity of Pulmonic Stenosis by Echocardiography.
11. Doppler & Color flow Imaging in Tricuspid Regurgitation.
12. Uses of Transesophageal Echo for prosthetic Valves.
