

SL.No: M23279

Course Code: 2670105 / 162614T05

**VINAYAKA MISSIONS RESEARCH FOUNDATION, SALEM  
(Deemed to be University)**

**M.SC.(ECHOCARDIOGRAPHY) / INTEGRATED CARDIAC  
TECHNOLOGY DEGREE EXAMINATION - January 2021  
First Year / Fourth Year**

**ECHOCARDIOGRAPHY FOR VALVULAR HEART DISEASE**

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

**I. Write an Long essay on :**

**(3 x 20 = 60)**

1. Explain the causes, 2 dimensional, M-Mode, Doppler and color flow imaging of Mitral regurgitation, criteria for definite & suggestive for severe MR.
2. Explain 2- dimensional, Doppler and color flow imaging in obstructive and regurgitant prosthetic valves.
3. Estimation of right Atrial pressure, right ventricular pressure and pulmonary artery pressure by Doppler Echocardiography.

**II. Write short notes on :**

**(4 x 10 = 40)**

4. Explain drug induced valvular heart disease.
5. Pre & Post procedural assessment for pulmonary valvuloplasty.
6. Classification of Prosthetic valves.
7. Continuity equation for valve area.

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