

SL.No: M22018

Course Code: 2670203/162615T02

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

**M.SC.(ECHOCARDIOGRAPHY/INTEGRATED CARDIAC TECHNOLOGY)
DEGREE EXAMINATION – December 2021
Second Year/Fifth Year**

EQUIPMENTS APPLICATIONS AND ERROR ANALYSIS

Time: Three hours

Maximum: 100 marks

Answer **ALL** questions

I. Write an Long essay on :

(3 x 20 = 60)

1. Mitral and aortic regurgitation and its quantitation.
2. Describe the evaluation of cardiac resynchronization therapy.
3. What the common sources of equipment software breakdown and how they are to be addressed.

II. Write short notes on :

(4 x 10 = 40)

4. Modified Bernoulli equation and intravascular pressures.
5. Types of probes and their design.
6. Calculation of cardiac mass.
7. Cardiac output.
