

**DIPLOMA IN CARDIAC NON-INVASIVE TECHNOLOGY
SECOND YEAR
PAPER II – ADVANCED CARDIOVASCULAR INVESTIGATIONS**

Q.P. Code: 842412

Time : Three Hours

Maximum : 100 Marks

Answer All questions.

I. Elaborate on:

(3 x 10 = 30)

1. Discuss about the echocardiographic features of mitral stenosis. Explain in detail about valve area assessment.
2. Discuss in detail about patient care and Medicolegal issues.
3. Discuss in detail the types, indications, modes and complications of mechanical ventilation.

II. Write notes on:

(10 x 5 = 50)

1. Discuss about the Infection control practices.
2. Explain about pressure halftime and deceleration time.
3. Write about the Parts of Defibrillator and shockable rhythms in ECG.
4. Discuss about the echocardiographic features and types of atrial septal defect.
5. Explain about the complications of myocardial infarction.
6. Discuss about the echocardiography criteria for severe aortic regurgitation.
7. Discuss about the principles of asepsis.
8. What are all the indications and contraindications of PTMC?
9. Explain the echocardiographic features of Dilated cardiomyopathy.
10. Discuss the procedure of atrial septal defect device closure.

III. Short answers on:

(10 x 2 = 20)

1. Define fluoroscopy.
2. What is Coarctation of Aorta?
3. What are all the indications of permanent pacemaker implantation?
4. Define Capnography?
5. What is Nyquist Limit?
6. What are all the Doppler features of restrictive diastolic filling?
7. What is the formula for measuring Aortic valve area?
8. What is B-mode?
9. What is CVP?
10. What is Hemoximeter?
