

**POST GRADUATE DIPLOMA IN CLINICAL  
CARDIOLOGY (PGDCC)**

**Term-End Examination**

**June, 2018**

**MCC - 002 : FUNDAMENTALS OF  
CARDIOVASCULAR SYSTEMS - II**

*Time : 2 hours*

*Maximum Marks : 60*

*Note : Attempt all questions.*

Write the answers in about 200 words each : 2x8=16

1. Echo doppler assessment of severity of aortic stenosis.
2. Describe the structures visualised in subcostal long axis and short axis views with illustrations.

Write short notes on :

4x5=20

3. Compare pulse wave to continuous wave doppler.
4. Echocardiographic recognition of complications of acute myocardial infarction.
5. Utility and method of performing left ventriculography.
6. Clinical utility of myocardial perfusion imaging in coronary artery disease.

Write very short notes on the following : **12x2=24**

7. Wall motion score index.
  8. Types of left ventricular diastolic dysfunction from flow pattern across mitral valve.
  9. Harmonic imaging.
  10. Diagnosing cardiac tamponade from flow patterns across mitral valve.
  11. 2D Echo features of constrictive pericarditis.
  12. Calculation of cardiac output by echo doppler.
  13. Calculation of pulmonary artery systolic pressure in a patient with ventricular septal defect.
  14. Approximate estimation of right atrial pressure from IVC.
  15. Estimation of aortic valve orifice area by Echocardiography.
  16. Correlation between degree regurgitation and regurgitant fraction.
  17. Ventilation perfusion scintigraphy.
  18. Agents used for myocardial perfusion imaging by pharmacological stress.
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