

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

Term-End Examination

December, 2017

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

Time : 2 hours

Maximum Marks : 60

Note : Attempt all questions.

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

1. Enumerate the various segments of left ventricle in 17 segment model along with their blood supply. Also describe briefly the echocardiographic assessment of global left ventricular systolic function.
2. Evaluations of ventricular function by different imaging techniques.

Write short notes on :

4x5=20

3. Echocardiographic differentiation of pleural and pericardial effusion.
4. Calculation of Mitral orifice area by pressure half time and its limitations.
5. Echocardiographic criteria for severe aortic regurgitation.

6. Morphological differentiation of right and left atrium and ventricles by echocardiogram.

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

7. Advantages of M Mode.

8. Nyquist limit.

9. Doppler shift.

10. Echocardiographic differentiating points between true and pseudoaneurysms of left ventricle.

11. 2D Echo signs of cardiac tamponade.

12. Hepatic and pulmonary venous flow patterns in cardiac tamponade.

13. Structures visualised in subcostal long axis view.

14. Types of Ventricular septal defect according to location.

15. Echocardiographic visualisation of patent ductus arteriosus.

16. Flow ratio.

17. Gorlin's formula for mitral orifice area in cath lab.

18. Angiographic grading of valvular regurgitation.