

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

**Term-End Examination**

**December, 2018**

00055

**MCC-001 : FUNDAMENTALS OF CARDIOVASCULAR  
SYSTEMS – I**

*Time : 2 hours*

*Maximum Marks : 60*

**Note :** Attempt *all* questions.

**Essay Type**

*2×8=16*

1. Describe the development of both atria and atrial partitioning with illustrations.
2. Describe the indications and contraindications of stress testing. Briefly state the limitations of stress testing in coronary artery disease.

**Short Answers**

*4×5=20*

3. Describe briefly the anatomy and functions of conduction system of heart.

4. Describe briefly the various phases of ventricular diastole.
5. Describe briefly recognition of right and left atrial enlargement from X-ray chest.
6. Describe the genesis of ST segment and T-wave and changes in disease states.

### **Short Notes**

*2×12=24*

7. Structures in the interior of the right atrium
  8. Myocardial energetics
  9. X-ray grading of pulmonary venous hypertension
  10. QT interval
  11. ECG changes of acute pericarditis
  12. ECG changes of pulmonary embolism
  13. ECG criteria of left ventricular hypertrophy
  14. ECG changes in hyperkalemia
  15. ECG recognition of sino-atrial exit block
  16. Brugada algorithm for evaluation of broad QRS tachycardia
  17. ECG recognition of left bundle branch block
  18. Non-specific intraventricular conduction defects
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