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MANIPAL UNIVERSITY

FIRST YEAR M.Sc. CVT DEGREE EXAMINATION – JUNE 2011

SUBJECT: PAPER – I: BASIC SCIENCE IN CARDIOLOGY

Tuesday, June 07, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ Answer **ALL** questions.

✍ Draw the diagrams wherever necessary.

1. Explain the development of Inter atrial septum and it's anomalies in detail with diagrams.
(20 marks)

2. Write short notes on:

2A. Myocardial development

2B. Formation of great systemic veins

2C. Development of pulmonary circulation

2D. Cardiac reserve

2E. Stroke volume

2F. Hemoglobin

(10×6 = 60 marks)



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MANIPAL UNIVERSITY

FIRST YEAR M.Sc. CVT DEGREE EXAMINATION – JUNE 2011


SUBJECT: PAPER – II: CLINICAL CARDIOLOGY

Thursday, June 09, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

 **Answer ALL questions.**

 **Draw the diagrams wherever necessary.**

1. Discuss the clinical classification of congenital heart disease.

(20 marks)

2. **Write short notes on:**

2A. Pseudo-aneurysm

2B. Rupture of papillary muscle

2C. Myocardial ischemia

2D. Vasovagal reflex

2E. ECG findings in left ventricular hypertrophy (LVH)

2F. Adenosine

(10×6 = 60 marks)



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MANIPAL UNIVERSITY

FIRST YEAR M.Sc. CVT DEGREE EXAMINATION – JUNE 2011

SUBJECT: PAPER – III: RECENT ADVANCES IN CARDIOLOGY

Saturday, June 11, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

- ✍ **Answer ALL questions.**
- ✍ **Draw the diagrams wherever necessary.**

1. Explain the principles and application of Tissue – Doppler Echocardiography.

(20 marks)

2. **Write short notes on:**

- 2A. Signal average ECG
- 2B. Types of tricuspid atresia
- 2C. Syndrome - Scimitar
- 2D. Advanced cardiac life support
- 2E. Assessment of cardiac dys-synchrony
- 2F. Left ventricular wall motion abnormality in Echocardiography

(10×6 = 60 marks)

