MANIPAL UNIVERSITY

FIRST YEAR M.Sc. CVT DEGREE EXAMINATION – JUNE 2010

SUBJECT: BASIC SCIENCE IN CARDIOLOGY

Tuesday, June 08, 2010

Time: 10:00 – 13:00 Hrs.   Max. Marks: 80

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

1. Explain the mitosis cell division with diagram and genetic factors in various congenital heart disease.

(20 marks)

2. **Write short notes on:**

2A. Embryonic blood vessels

2B. Development of sinus venosus

2C. Formation of embryonic ventricles

2D. Lipid profile

2E. Renin angiotensin system

2F. Cata cholamines

(10×6 = 60 marks)

MANIPAL UNIVERSITY

FIRST YEAR M.Sc. CVT DEGREE EXAMINATION – JUNE 2010

SUBJECT: CLINICAL CARDIOLOGY

Thursday, June 10, 2010

Time: 10:00 – 13:00 Hrs.   Max. Marks: 80

✍ **Answer ALL questions.**

✍ **Draw the diagrams wherever necessary.**

1. Discuss the etiology and diagnosis of Aortic regurgitation.

(20 marks)

2. **Write short notes on:**

2A. Bulls eye plot and myocardial infarction

2B. Infective Endocarditis

2C. Echo scoring in mitral stenosis

2D. Burnoulli equation

2E. Electrical axis

2F. $S_1 S_{II} S_{III}$ Syndrome

(10×6 = 60 marks)

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FIRST YEAR M.Sc. CVT DEGREE EXAMINATION – JUNE 2010

SUBJECT: RECENT ADVANCES IN CARDIOLOGY

Saturday, June 12, 2010

Time: 10:00 – 13:00 Hrs.   Max. Marks: 80

✍ **Answer ALL questions.**

✍ **Draw the diagrams wherever necessary.**

1. Discuss the recent advances of 3D Echocardiography.

(20 marks)

2. **Write short notes on:**

2A. Right ventricular function (RV)

2B. Common fit falls in ECG interpretation

2C. Speckle tracking

2D. Name the various areas of myocardial infarction as per Bull's eye plot

2E. Automated strain

2F. His-bundle ECG

(10×6 = 60 marks)