Reg. No.										

MANIPAL UNIVERSITY

SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – JUNE 2016

SUBJECT: PAPER V: CONGENITAL HEART DISEASE

(2012 SCHEME)

Wednesday, June 01, 2016

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

- **Answer ALL the questions.**
- **Draw the diagram wherever necessary.**

1. Explain presentation, diagnosis and Echocardiographic imaging of Hypoplastic left heart syndrome.

(20 marks)

2. Explain classification, Pathophysiology and role of Echocardiography in management of Endocardial cushion defect with LVOTO.

(20 marks)

3. **Write short note on:**

3A. Large PDA with elevated PVR

3B. Cor-Triatriatum anatomic classification

3C. Coronary anomaly in TOF

3D. Postnatal circulatory adaptation in VSD

3E. Great artery relations in TGA.

(8 marks × 5 = 40 marks)

Reg. No.										

MANIPAL UNIVERSITY

SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – JUNE 2016

SUBJECT: PAPER VI: MISCELLANEOUS DISEASES

(2012 SCHEME)

Friday, June 03, 2016

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

- **Answer ALL the questions.**
- **Draw the diagram wherever necessary.**

1. Explain infectious and non-infectious diseases of the pericardium. Define diagnostics in constrictive pericarditis.

(20 marks)

2. Explain clinical features, pathophysiology and diagnostic test in Takotsubo cardiomyopathy.

(20 marks)

3. **Write short note on:**

3A. Amyloidosis
3B. Peripartum cardiomyopathy
3C. Hypereosinophilic syndrome
3D. SCD and risk stratification of HCM
3E. Metabolic cardiomyopathy

(8 marks × 5 = 40 marks)

Reg. No.										

MANIPAL UNIVERSITY

SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – JUNE 2016

SUBJECT: PAPER VII: RECENT ADVANCES

(2012 SCHEME)

Monday, June 06, 2016

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

- **Answer ALL the questions.**
- **Draw the diagram wherever necessary.**

1. How do you differentiate Restrictive cardiomyopathy from constrictive pericarditis by newer Echocardiographic indices?

(20 marks)

2. Explain the various methods of RV function assessment in detail.

(20 marks)

3. **Write short note on:**

3A. Myocardial strain
3B. Heart failure in normal EF (HFNF)
3C. Tissue tracking
3D. Prosthetic valve function assessment
3E. PISA method

(8 marks × 5 = 40 marks)