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MANIPAL UNIVERSITY

SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – JUNE 2014

SUBJECT: PAPER V: CONGENITAL HEART DISEASE
(2012 SCHEME)

Monday, June 02, 2014

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ **Answer all the questions. Draw the diagram wherever necessary.**

1. Explain Clinical presentation and diagnosis of TAPVC with and without pulmonary venous obstruction.
2. Define DORV, its subtypes and role of Echo in management strategy.
(20 marks × 2 = 40 marks)

3. Write short note on:

- 3A. Unbalanced AVSD
- 3B. Protein losing enteropathy
- 3C. Truncus arteriosus
- 3D. Coronary sinus dilation
- 3E. Double aortic arch

(8 marks × 5 = 40 marks)



Reg. No.

MANIPAL UNIVERSITY

SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – JUNE 2014

**SUBJECT: PAPER VI: MISCELLANEOUS DISEASES
(2012 SCHEME)**

Wednesday, June 04, 2014

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

Answer all the questions. Draw the diagram wherever necessary.

1. Explain classification, diagnostic evaluation of various types of Restrictive cardiomyopathy.
2. Define clinical manifestation, classification and diagnostic imaging of aortic dissection.

(20 marks × 2 = 40 marks)

3. Write short note on:

- 3A. Non-viral and viral causes of myocarditis
- 3B. Role of Echo in management of HCM
- 3C. Takayasu arteritis
- 3D. Rhabdomyomas
- 3E. Echo in CKD

(8 marks × 5 = 40 marks)



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MANIPAL UNIVERSITY

SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – JUNE 2014

SUBJECT: PAPER VII: RECENT ADVANCES
(2012 SCHEME)

Friday, June 06, 2014

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

Answer all the questions. Draw the diagram wherever necessary.

1. Explain assessment of Dysnchrony and its applications in detail.
2. Explain indication, methodology and role of fetal echocardiography in diagnosing complex congenital Heart diseases.

(20 marks × 2 = 40 marks)

3. Write short note on:

- 3A. Tissue synchronization imaging (TSI)
- 3B. Tissue Doppler in Hypertensive heart disease
- 3C. Tissue tracking
- 3D. Myocardial viability
- 3E. Colour M-mode

(8 marks × 5 = 40 marks)

