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MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – MAY/JUNE 2018

SUBJECT: PAPER VII: RECENT ADVANCES

(2015 SCHEME)

Friday, June 01, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

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

1. Explain mechanism, functioning and role of IVUS in intervention in detail.
(20 marks)
2. Explain the newer Doppler indices in assessment of Dyssynchrony analysis in detail.
(20 marks)
3. **Write short note on:**
 - 3A. TD imaging for LV dysfunction
 - 3B. Automated functional imaging
 - 3C. Myocardial contrast Echo in CAD
 - 3D. Pulmonary venous doppler
 - 3E. CVP assessment

(8 marks × 5 = 40 marks)



Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – MAY/JUNE 2018

SUBJECT: PAPER V: CONGENITAL HEART DISEASE
(2015 SCHEME)

Monday, May 28, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

✍ Answer ALL the questions.

✍ Draw the diagram wherever necessary.

1. Describe coronary anomalies in normal and various CHD, Write a brief note on ALCAPA.

(20 marks)

2. Explain presentation, diagnosis and Echocardiographic imaging in DILV.

(20 marks)

3. Write short note on:

3A. Pulmonary atresia with intact ventricular septum

3B. Peripheral PS

3C. MAPCAs

3D. Interrupted aortic arch

3E. AP window

(8 marks × 5 = 40 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – MAY/JUNE 2018

SUBJECT: PAPER VI: MISCELLANEOUS HEART DISEASES
(2015 SCHEME)

Wednesday, May 30, 2018

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

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

1. Explain classification, pathophysiology, presentation and role of echo in diagnosis and management of ruptured sinus of valsalva (RSOV).

(20 marks)

2. Explain the classification, presentation and diagnosis in hypertrophic obstructive cardiomyopathy.

(20 marks)

3. Write short note on:

3A. Left ventricular non compaction

3B. Papillary fibro elastoma

3C. Dressler's syndrome

3D. Pulmonary hypertension

3E. Pericardial tamponade

(8 marks × 5 = 40 marks)

