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#### SECOND/THIRD YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – JUNE 2015

## SUBJECT: PAPER V: CONGENITAL HEART DISEASE (2012 SCHEME/2012 PT)

Monday, June 01, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- ✓ Draw the diagram wherever necessary.
- 1. Explain presentation, diagnosis and Echocardiography in HLHS.

(20 marks)

2. Explain pathophysiology, presentation and diagnostics in TOF.

(20 marks)

- 3. Write short note on:
- 3A. Pulmonary AV malformation
- 3B. Uhl anomaly
- 3C. Phlebotomy
- 3D. AP window
- 3E. ALCAPA

 $(8 \text{ marks} \times 5 = 40 \text{ marks})$ 

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# SECOND YEAR M.Sc. CARDIAC CATHETERIZATION AND INTERVENTIONAL TECHNOLOGY DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER V: CONGENITAL HEART DISEASE

Monday, June 01, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- Answer ALL the questions.
- Draw the diagram wherever necessary.
- 1. Explain baseline hemodynamics, procedure, technique and stenting of co-arctation of aorta.

(20 marks)

2. Explain various methods of cardiac output measurements.

(20 marks)

- 3. Write short note on:
- 3A. Pre-Glenn and pre-Fontan catheterization
- 3B. Balloon atrial septostomy
- 3C. Cath and Angiography in TOF
- 3D. Cardiac catheterization and angiography in anomalous pulmonary venous connection
- 3E. Assessment of reactivity PV bed in Eisenmenger syndrome



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# SECOND YEAR M.Sc. CARDIAC CATHETERIZATION AND INTERVENTIONAL TECHNOLOGY DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER VI: MISCELLANEOUS DISEASES

Wednesday, June 03, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- Answer ALL the questions.
- ✓ Draw the diagram wherever necessary.
- 1. Explain the types of aortic arch. Explain carotid stenting in detail.

(20 marks)

2. Explain the treatment of abdominal aortic aneurysm in detail with expecting complications.

(20 marks)

- 3. Write short note on:
- 3A. Coronary artery perforation
- 3B. Contrast nephropathy
- 3C. Coronary graft angiogram
- 3D. Arterio-venous fistula obstruction-intervention in dialysis patients
- 3E. Front runner catheter



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### SECOND YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – JUNE 2015

## SUBJECT: PAPER VI: MISCELLANEOUS DISEASES (2012 SCHEME/2012 PT)

Wednesday, June 03, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- Answer ALL the questions.
- Z Draw the diagram wherever necessary.
- 1. Explain definition, nomenclature, pathophysiology and diagnosis of HOCM.

(20 marks)

2. Define differentiation of ischemic and non ischemic cardiomyopathy in detail.

(20 marks)

- 3. Write short note on:
- 3A. Aortic atheroma
- 3B. Marfan syndrome
- 3C. Squatting stress echocardiography
- 3D. Arrythmogenic RV cardiomyopathy
- 3E. Hepatic vein Doppler



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#### SECOND/THIRD YEAR M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION – JUNE 2015

### SUBJECT: PAPER VII: RECENT ADVANCES (2012 SCHEME/2012 PT)

Friday, June 05, 2015

Time: 10:00 - 13:00 Hrs.

Max. Marks: 80

- Answer ALL the questions.
- ✓ Draw the diagram wherever necessary.
- 1. Explain hepatic venous flow in rhythm and conduction disorders.

(20 marks)

2. Define CHA2DS2-VASc Score for Atrial Fibrillation Stroke Risk, pre analysis of LA appendage closure, procedural and post LAA closure assessment in detail.

(20 marks)

- 3. Write short note on:
- 3A. TD imaging for LV Dyssnchrony
- 3B. 3D speckle tracking echocardiography
- 3C. Myocardial contrast Echo
- 3D. PFO assessment in stroke patient
- 3E. PISA method

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## SECOND YEAR M.Sc. CARDIAC CATHETERIZATION AND INTERVENTIONAL TECHNOLOGY DEGREE EXAMINATION – JUNE 2015

SUBJECT: PAPER VII: RECENT ADVANCES IN INTERVENTION

Friday, June 05, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 80

- Answer ALL the questions.
- Draw the diagram wherever necessary.
- 1. Explain procedural consideration and technique of optical coherence tomography (OCT) in detail.

(20 marks)

2. Explain technique and role of FFR in coronary intervention in detail.

(20 marks)

- 3. Write short note on:
- 3A. Pulmonary valve implantation
- 3B. Percutaneous balloon pericardiotomy
- 3C. RSOV devise closure
- 3D. Radiation hazards
- 3E. Coronary artery brachytherapy

