Question Paper

Exam Date & Time: 11-Jan-2023 (10:00 AM - 12:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc. (ECHOCARDIOGRAPHY) DEGREE EXAMINATION - JANUARY 2023
SUBJECT: CVS6011 - ADVANCE ECHOCARDIOGRAPHY
(2021 SCHEME)

Marks: 50 **Duration: 120 mins.**

Answer all the questions.

1)	Explain the different views and clinical applications of transesophageal Echo	(20)
2)	Explain the pre-requisites and brief method of assessing LV torsion	(10)
3)	Write a note on dyssynchrony assessment by Echocardiography	(10)
4A)	Enumerate the advantage and disadvantages of Tissue Doppler imaging	(5)
4B)	Write a note on intravascular ultrasound	(5)

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Question Paper

Exam Date & Time: 07-Jan-2023 (10:00 AM - 01:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc. (ECHOCARDIOGRAPHY) DEGREE EXAMINATION - JANUARY 2023
SUBJECT: CVS6101- CONGENITAL HEART DISEASES
(2021 SCHEME)

Marks: 100 **Duration: 180 mins.**

Answer all the questions.

1)	Explain in detail pathophysiology, clinical features, diagnosis and management in HLHS.	(20)
2)	Elaborate the pathogenesis, clinical features, echocardiographic diagnosis and management of complete AVSD in detail.	(20)
3)	Explain the pathophysiology, diagnosis and management in hemitruncus.	(10)
4)	Illustrate the embryology and diagnostic features in common atrium.	(10)
5)	Explain the pathophysiology and diagnosis in TOF with absent pulmonary valve.	(10)
6)	Explain the etiopathogenesis, clinical features and diagnostic criteria of Kawasaki disease.	(10)
7A)	Briefly write a summary on Shone's complex.	(5)
7B)	Define Double aortic arch.	(5)
7C)	List the syndromic associations in conotruncal anomalies.	(5)
7D)	Define Double orifice mitral valve.	(5)

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Question Paper

Exam Date & Time: 09-Jan-2023 (10:00 AM - 01:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc. ECHOCARDIOGRAPHY DEGREE EXAMINATION - JANUARY 2023
SUBJECT: CVS6102 - CARDIAC PACEMAKERS AND DEFIBRILLATORS
(2021 SCHEME)

Marks: 100 **Duration: 180 mins.**

Answer all the questions.

1)	Explain the preprocedural and post-procedural evaluation of patients undergoing CRT implantation.	(20)
2)	Explain the mechanism of Bradycardia detection and therapy in ICD.	(20)
3A)	Explain the indication and brief procedure of the head-up tilt table test.	(10)
3B)	Illustrate the mechanism of biventricular pacing.	(10)
3C)	Explain the components of cardiac pacemakers.	(10)
3D)	Describe the various pacemaker malfunction.	(10)
4A)	Explain the role of Holter monitoring in the decision-making for PPI.	(5)
4B)	Explain the waveforms seen in SAECG.	(5)
4C)	Outline the magnet function in ICD.	(5)
4D)	Explain the pacing physiology in VVI pacing.	(5)

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