Question Paper

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



MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER M.Sc.(CARDIAC CATH & INTERVENTION TECHNOLOGY) DEGREE EXAMINATION - JANUARY 2023 SUBJECT: CCI6011 - 3D MAPPING AND ABLATION (2021 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

1)	Explain the techniques of AVNRT and AVRT catheter ablation during cardiac EP studies	(20)
2)	Discuss the various access site used and add a note on standard catheter positioning during EP studies	(10)
3)	Discuss the catheter ablation techniques of post MI ventricular tachycardia	(10)
4A)	Define and add a note on cryoablation	(5)
4B)	Add a note on construction of Mapping system	(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. (CARDIAC CATH & INTERVENTION TECHNOLOGY) DEGREE EXAMINATION - JANUARY 2023 SUBJECT: CCI6101- CARDIAC CATH AND INTERVENTION IN CHD (2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

1)	Write the indications, contraindications, procedure and hardware's of patent ductal arteriosus device closure by cardiac catheterization	(20)
2)	Discuss the importance of balloon atrial septostomy in various cyanotic congenital defects, and explain the procedure of the same in detail	(20)
3A)	Write a note on coronary and pulmonary arteriovenous fistula	(10)
3B)	Write the anatomical description, pathophysiology and role of cardiac catheterization in CCTGA	(10)
3C)	Explain the procedure of oximetry run and its limitations	(10)
3D)	Write a note on cardiac ventriculography .	(10)
4A)	Write a note on hypoplastic left heart syndrome	(5)
4B)	Write a note on thermodilution method of cardiac output measurements	(5)
4C)	Explain the classification and pathophysiology of Truncus arteriosus	(5)
4D)	Write a note on pulmonary blood flow and resistance	(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. CCIT DEGREE EXAMINATION - JANUARY 2023 SUBJECT: CCI6102 - ELECTROPHYSIOLOGY AND CARDIAC PACEMAKERS (2021 SCHEME)

Answer ALL questions.

Marks: 100

Duration: 180 mins.

1)	Explain the importance of pacemaker timing cycles and intervals for both single and dual chamber cardiac pacing.	(20)
2)	Explain the standard catheter positioning in electrophysiological studies and add a note on various intervals measured.	(20)
3A)	Discuss the common pacemaker problems and malfunctions.	(10)
3B)	Explain the SVT evaluation and interpretation of EP study findings.	(10)
3C)	Discuss the components of implantable cardioverter defibrillator.	(10)
3D)	Explain the post procedural program settings in CRT devices.	(10)
4A)	Write a note on active and passive lead fixation mechanism.	(5)
4B)	Write a note on heart rate variability test in the evaluation of cardiac arrhythmias.	(5)
4C)	Explain the uses of cardioactive drugs during electrophysiogical studies.	(5)
4D)	Define ablation therapy in electrophysiogical studies.	(5)

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