

# Question Paper

Exam Date & Time: 01-Jun-2022 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER M.Sc. (CARDIAC CATH & INTERVENTION TECHNOLOGY) DEGREE EXAMINATION - MAY/JUNE  
2022

SUBJECT: MCAT 706 - RECENT ADVANCES IN CARDIAC CATH AND INTERVENTION  
(2018 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Discuss the interventional treatment and techniques for non valvular atrial fibrillation to avoid thromboembolism and add a note on CHADS<sub>2</sub>DS<sub>2</sub> VASc score. (20)
- 2) Discuss the different methods of stem cell therapy for ischemic heart diseases. (20)
- 3A) Discuss the advantages and disadvantages of intravascular ultrasound over optical coherence tomography. (10)
- 3B) Explain the mechanism and the uses of support devices for high risk PCI. (10)
- 3C) Explain the coronary vein device insertion techniques. (10)
- 3D) Discuss the role of quantitative CAG in assessing coronary lesions. (10)
- 4A) Write a note on LASSO III trial on LAA occlusion. (5)
- 4B) Add a note on pericardiocentesis. (5)
- 4C) Define ECMO and add a note on its indications. (5)
- 4D) Give the mechanisms and classifications of Mitral Regurgitation. (5)

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