

CARDIOLOGY
PAPER – III

CARD/J/17/05/III

Time : 3 hours

Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) Anticoagulation in atrial fibrillation. 5+5
b) Antidotes that are being developed for the Newer oral anticoagulants.
2. a) Role of Optimal Coherence Tomography (OCT) in predicting vulnerable plaques. 6+4
b) What are the other modalities of intravascular imaging?
3. a) Extracorporeal ultrafiltration for fluid overload in heart failure. 5+5
b) Current drugs which are under development for treatment of heart failure.
4. a) Role of carotid artery revascularization in patients with coronary artery disease. 5+5
b) Recent clinical trials associated with carotid revascularization.
5. a) Leadless cardiac pacing and give a note on current follow up. 4+4+2
b) Leadless LV pacing.
c) What is CRT with wireless LV endocardial pacing?
6. a) Development of transcatheter mitral valve repair. 5+5
b) MV repair studies in heart failure.
7. a) Current concepts in management of renovascular hypertension in adults. 5+5
b) Etiology and management of renovascular hypertension in India.

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8. a) Valve-in-valve TAVR. 2+3+5
b) Enumerate the various valves used in TAVR.
c) Recent clinical trials in TAVR.
9. a) Ablation of ventricular tachycardia in patients with structural heart disease. 6+4
b) What is MADIT-CRT long term follow up?
10. a) Principles of cell and gene based cardiac regenerative therapies 5+3+2
b) Cell and Gene delivery systems.
c) Clinical trials of gene therapy.
