



**CARDIOLOGY**

**PAPER - III**

CARD/J/14/05/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.

1. What is optical coherence tomography (OCT)? Discuss its utility and compare it with IVUS. 3+(3+4)
2. What are subcutaneous defibrillators? What are their advantages and disadvantages? 4+(3+3)
3. What are bio-absorbable stents? What are their advantages and disadvantages? 4+(3+3)
4. What is non invasive FFR? How does it compare and contrast with invasive FFR? 5+5
5. Compare and contrast 3D echocardiography with TEE. 5+5
6. Outline percutaneous interventions to treat mitral regurgitation. Discuss indications and contraindications for MitraClip. 4+(4+2)
7. Discuss indications of TAVR. How does balloon expandable valve differ from self expandable valve in the technique of implantation? 4+6
8. What are newer antiplatelet agents? What are their advantages and disadvantages? 4+(3+3)
9. Describe bifurcation stents. What are the advantages and disadvantages of dedicated bifurcation stents? 4+(3+3)
10. What are leadless pacemakers? Discuss their advantages and disadvantages. 4+(3+3)