

**INTERVENTIONAL CARDIOLOGY**  
**THEORY PAPER**

**Time : 3 hours**  
**Max. Marks : 100**

**Attempt all questions in order.**  
**Each question carries 10 marks.**

**Write short notes on:**

1. What are non-hyperemic indices, and how do we measure them. What are their advantages over FFR? 10
2. Coronary aneurysms – Pathophysiology, diagnosis and management. 10
3. a) How do we measure radiation exposure in Cath lab? 5+5  
b) Hazards associated with radiation exposure and methods to reduce radiation exposure in Cath labs.
4. What are novel alternate sites of pacing? Discuss indications, rationale and methodology for the same. 10
5. Interventional cardiology in the COVID era – Issues, solutions and guidelines. 10
6. What are the indications and rationale of cardiac interventions in Pregnancy? 10
7. Indications and role of trans-esophageal Echocardiography during cardiac interventions. 10
8. What is Critical Limb Ischemia? What are the current indications and techniques of infra-popliteal Interventions? 10
9. Indications and methods of septal ablation therapy in Hypertrophic Cardiomyopathy. 10
10. a) Indications of Carotid artery stenting (CAS) in current era. 5+5  
b) What are the distal protection devices used? What are the absolute contraindications to CAS?

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