

SHREE CHITRA TIRUNAL INSTITUTE OF MEDICAL SCIENCES & TECHNOLOGY
THIRUVANANTHAPURAM – 11

PART I

Time: 3 hrs

MONTH JULY YEAR 2011

Max Marks: 100

Course DM

Subject Cardiac Anaesthesiology

- 1 Describe atherosclerotic lesion of coronary arteries. When does the atherosclerotic process begin. What is the role of Lipoproteins in atherosclerotic lesion formation?
- 2 What all post-operative complications may be attributable to systemic inflammatory response during CPB? Describe methods for prevention of inflammation related complications.
- 3 What is anaesthetic pre conditioning? Describe important signaling pathways in pre conditioning. What is the role of inhalational agents in preconditioning?
- 4 What are the effects of cardiopulmonary bypass on pharmacokinetics and Pharmacodynamics of drugs.
- 5 Describe catheter based therapy for accessory conduction pathways. What all approaches are used to ablate these pathways? What is the success rate? What are the possible complications during this procedure?
- 6 Describe role of transesophageal echocardiography for understanding aortic pathology and its limitation for evaluation of thoracic aorta. What information echocardiographer provide the surgeon for formulation and management strategy for aortic surgery?