

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY
THIRUVANANTHAPURAM

July, 2005

DM Cardiac Anaesthesiology

Part -I

Paper - I

Time: 3 hrs.

Max. Marks : 100

Short Essays

1. Describe the acid base changes during Cardio Pulmonary bypass and its management.
2. Describe the anatomy of the cardiac conduction system including accessory paths and the factors affecting the same.
3. Describe the Ficks principle and describe the Picco method of measurement of cardiac out put.
4. Ischemic preconditioning and its molecular basis.
5. Describe the neuroendocrine responses to Cardio Pulmonary bypass.
6. Hypoxic Pulmonary Vasoconstriction, its role in lung physiology and factors affecting it.
7. Describe the principle of Echocardiography and the various views available for perioperative imaging.
8. Describe the cardiac cycle with the aid of diagrams.
9. Pulmonary function tests.