

SREE CHITRA TIRUNAL INSTITUTE OF MEDICAL SCIENCES AND TECHNOLOGY
Thiruvananthapuram

PART 1 Course **DM** Subject **Cardiothoracic and vascular anaesthesia** Paper I
July 2012 Attempt all questions Max Marks 100

All Questions carries equal marks

1. How you define nosocomial infection? Enlist the Methods of prevention.
Describe in brief the goals/principles of management.
2. Describe briefly the anatomy of pulmonary circulation clearly demonstrating the sites of communications with systemic circulation.
3. Classify VSDs and describe the Echo correlation of different VSDs.
4. Describe the calcium homeostasis in myocardium with illustration.
5. Describe Coagulation pathways using line diagram clearly demonstrating the site of common coagulation monitoring tests as well as the site of action of commonly used drugs which affect the pathway.
6. Enumerate and describe in brief the physical principles which govern flow during CPB.
7. Enumerate various types of filtration methods available for use during CPB.
Describe in brief the principles governing these.
8. Describe the continuity equation and its relevance in clinical echocardiography.
9. Discuss pathophysiology of perioperative myocardial ischaemia and infarction.