

Sree Chitra Tirunal Institute for Medical Sciences and Technology

DM Cardiac Anaesthesiology  
Part I  
Time 3 hrs

July 2007  
Paper I  
Max Marks 100

Write short Essays on following

- ✓ 1. Univentricular heart physiology.
- ✓ 2. Serum Markers of Myocardial Injury
- ✓ 3. Pulmonary circulation in obstructed RVOT.
- ✓ 4. Nutritional needs of failing heart. How can we facilitate energy production and utilization in this situation.
- ✓ 5. Neonatal myocardium. How is it different from adult. What are the implications of these differences.
- ✓ 6. Venous drainage of heart.
- ✓ 7. PISA and how its-used for calculating valve areas.
- ✓ 8. Factors affecting gas exchange in membrane oxygenator and how to diagnose leaking membranes.
- ✓ 9. Hypoxic pulmonary vasoconstriction and the factors affecting it . How can these be exploited to avoid hypoxaemia.