

**The West Bengal University of Health Sciences**  
**M.Ch. (Cardio Thoracic & Vascular Surgery) Examination,**  
**August 2022**

Paper : III

**Full Marks :100**  
**Time : 3 hours**

*Attempt all questions. All Questions carry 10marks each.*

1. Write short notes on : 5+5
  - i) Norwood procedure
  - ii) DKS procedure
2. How to manage a 2 year old child with cyanotic spell ? How to manage a case of TOF with pulmonary atresia ? 5+5
3. Describe different type of mitral valve repair technique. What is French correction ? 7+3
4. What is cardiac tamponade ? Describe the difference between pericardial effusion and cardiac tamponade ? What is post pericardiotomy syndrome ? 2+3+5
5. What are the indication for heart transplant ? What are the selection criteria for donor ? Describe the post operative anti rejection treatment for heart transplant recipient. 2+3+5
6. Classify cardiac tumours. Briefly describe about the clinical presentation and management of any one of them. 10
7. Describe ECMO with reference to : a) Types b) Indication c) Procedure and complications. 2+3+5
8. What is hybrid coronary artery bypass surgery ? Indication and contraindication of hybrid CABG. Write short note on FFR (Fractional Flow Reserve). 10
9. Write short notes on: 5+5
  - i) Pectus Excavatum.
  - ii) Virtual Bronchoscopy.
10. Describe the conduction system of heart with its blood supply with suitable diagram. Describe the relationship of conduction system with different type of VSD with diagram. 5+5