

**CARDIOLOGY**

**PAPER-III**

CARD/J/18/05/III

Time: 3 hours

Max. Marks:100

**Important Instructions:**

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) Noninvasive FFR (Fractional Flow Reserve). 3+4+3  
b) Precautions while performing FFR to ensure accuracy.  
c) Clinical trials indicating utility of FFR.
2. a) Percutaneous hemodynamic assist methods. 5+5  
b) Evaluation of adult patient who has survived out of hospital cardiac arrest.
3. a) Percutaneous approaches to mitral valve diseases. 3+4+3  
b) Percutaneous approaches to aortic valve diseases.  
c) Percutaneous approaches to pulmonary valve diseases.
4. a) Pharmaco-invasive approach to STEMI management. 5+5  
b) Role of thrombosuction in primary PCI.
5. a) Perinatal interventions in Duct Dependent Systemic and pulmonary circulations. 5+5  
b) Pre-requisites for a Fontan surgery.
6. a) Interventional management of coronary bifurcation diseases. 5+5  
b) Complications of rotablation and its management.
7. a) Sizing of devices for ASD, VSD and PDA closure. 5+5  
b) Acute & long term complications of VSD closure.
8. a) Assessment of myocardial viability. 5+5  
b) Management of post cardiac transplant patient.
9. a) Sizing of percutaneous aortic valve 5+5  
b) Vascular access and its management in percutaneous aortic valve implantation.
10. a) Conclusions regarding cardiovascular risk factors in INTERHEART Study. 5+5  
b) Perinatal and early childhood factors contributing to coronary artery disease risk.

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