

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002**

POST DOCTORAL FELLOWSHIP EXAMINATIONS: DECEMBER, 2024

**CARDIAC ANAESTHESIA
PAPER–II**

Time: 3 Hours.

Max Marks: 100

Note: Answer all questions with neat diagrams whenever necessary
All question carry equal marks.

Write an essay on the following:

10 X 10 = 100

1. Phosphodiesterase (PDE5) inhibitors. Give brief outline of mechanism of action of PDE5 drugs and their role in Cardiac patients.
2. Total Anomalous Pulmonary Venous Connection (TAPVC). Discuss the types of TAPVC with clinical presentation and preoperative concerns with anaesthetic management.
3. Minimal Invasive Cardiac Surgery (MICS) - discuss the perioperative concerns and management of Anaesthetic for a case of Minimal Invasive Coronary Artery Bypass Surgery.
4. Discuss briefly:
 - a. Cerebral function monitoring during Cardiac Surgery.
 - b. Neurocognitive Dysfunction following Cardiac surgery and preventive measures.
5. Outline the risk factors and management of perioperative Renal Dysfunction following Cardiac Surgery. Elaborate on MEHRAN Score.
6. Swan- Ganz (PA Catheter):
 - a. Briefly outline with a diagram representing the pressure waves at various stages of PA Catheter Placement.
 - b. Measured Values and Derived Values from Swan- Ganz Catheter placement.
7. Cardio Pulmonary Bypass (CPB):
 - a. Labelled diagram of CPB with circuit.
 - b. Pump priming solutions.
 - c. Blood cardioplegia.
8. Short note on:
 - a. Incentive Spirometry.
 - b. Vasoplegia in Perioperative Period.
 - c. Mixed Venous Oxygen Saturation.
9. Discuss the Anaesthetic concerns in an elderly (85 years) patient coming for elective CABG.
10. Short notes on
 - a. Terlipressin.
 - b. Labetalol.
