

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
TELANGANA STATE, WARANGAL – 506 002
POST DOCTORAL FELLOWSHIP EXAMINATIONS: AUGUST, 2024
CARDIAC ANESTHESIA
PAPER–II

Time: 3 Hours.

Max Marks: 100

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

Write an essay on the following:

10 X 10 = 100

1. Discuss the physiology of myocardial oxygen supply and demand mechanics in a normal heart and the myocardial protection strategies in a patient coming for major heart surgery (Aortic Valve Replacement).
2. Write short note on:
 - a) Allen's test.
 - b) Thrombo elastography. (5+5)
3. Briefly discuss the ECG and clinical features of Hypokalaemia and Hyperkalaemia. Discuss the stepwise treatment of hyperkalaemia in an ICU patient.
4. Describe the risk factors for acute kidney injury during cardiac surgery and enumerate the renal protection strategies during Cardiac surgery.
5. Discuss the role of anaesthesiologist in the perioperative management of a patient coming for Off Pump CABG.
6. Briefly describe the Coagulation cascade with a flow Diagram and Discuss the perioperative management of coagulation going for open heart surgery.
7. Discuss the preoperative management of a patient with unstable angina waiting for elective CABG, Discuss briefly the role of cardio selective beta blockers in this scenario.
8. Role of temperature monitoring during cardiac surgery, discuss the advantages and disadvantages of various sites of temperature monitoring.
9. Ventilation perfusion mismatch, how to optimise the Ventilation perfusion in a patient undergoing Thoracotomy for Right lung lower lobectomy.
10. Briefly discuss the oxygen dissociation Curve (ODC) and the factors affecting ODC. What is P50 in ODC.
