

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002
POST DOCTORAL FELLOWSHIP EXAMINATIONS: DECEMBER 2025

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. Discuss briefly the Cardio Pulmonary Bypass (CPB) circuit with a diagram and enumerate the inbuilt safety measures and check list before the initiation and successful run of CPB.
2. Discuss briefly. (3+4+3)
 - a) The conduction system of the Heart with a diagram.
 - b) Clinical features and ECG appearance of Complete Heart Block (CHB).
 - c) Management of CHB.
3. Discuss the. (5+5)
 - a) Mechanisms of action of older and newer novel Oral Anticoagulants.
 - b) Clinical features and management of overdose of oral anticoagulants.
4. Discuss the hemodynamic anaesthetic goals in a patient of severe mitral regurgitation coming up for mitral valve repair/replacement surgery.
5. Short notes on clinical features and echocardiographic findings coming for Patent Ductus arteriosus ligation.
6. Short notes on. (7+3)
 - a) Clinical features, preoperative evaluation and anaesthetic management of a patient of Hypertrophic obstructive cardiomyopathy (HOCM).
 - b) Cardiac myosin inhibitors.
7. Discuss the salient features of Cardiac Prehabilitation and rehabilitation in a patient after Acute coronary syndrome for surgical revascularisation (CABG).
8. Briefly discuss. (6+4)
 - a) The intrinsic and extrinsic coagulation cascade with a flow diagram.
 - b) Thromboelastographic (TEG).
9. Write short notes on. (5+5)
 - a) Pain management strategies in a patient of chest injury with rib fractures.
 - b) Principles and management of Intercoastal drainage for a patient of chest trauma.
10. Short notes on. (5+5)
 - a) Procalcitonin.
 - b) Incentive spirometry.
