

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

POST DOCTORAL FELLOWSHIP EXAMINATIONS: DECEMBER, 2024

**CARDIAC ANESTHESIA
PAPER–I**

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 about Adrenergic Receptors and their mechanisms of action in the body. Discuss briefly about the Functions and distribution of Adrenergic receptors in the Cardiovascular and respiratory system.
2. Discuss the hemodynamic goals and anaesthetic management of a patient With Severe Aortic Stenosis coming for Elective Aortic Valve Replacement (AVR)
3. Discuss briefly the Basic views of TEE for Left Ventricular Function assessment. Elaborate on Simpson's method for LV function assessment.
4. Discuss briefly about the principles and mechanism of Intra-aortic balloon pump. Briefly discuss the Indications, contraindications and limitations of IABP,
5. Discuss briefly the nerve supply of the heart and the influence of autonomic nervous system on the heart.
6. 65year old male patient with Critical Left Main Coronary Artery Disease (Critical LMCA Disease) presented to Emergency Department with Unstable Angina Discuss the pre-op evaluation and preparation for emergency CABG.
7. Discuss the principles of Exercise tolerance test (TMT) and briefly describe Dobutamine stress Echo (DSE)
8. Write short note on the following:
 - a) Etomidate
 - b) Automatic Implantable Cardioverter Defibrillator (AICD)
9. Discuss the various approaches to Central Venous Line (CVP) placement with Diagrammatic representation of the Neck anatomy.
10. Discuss the types of Total Anomalous pulmonary venous connection (TAPVC) and discuss the indications for emergency surgery in TAPVC.
