

SAUDI FELLOWSHIP TRAINING PROGRAM

Cardiac Anaesthesia

Final Written Examination 2020

Examination Format:

The Saudi subspecialty fellowship and diplomas final written examination shall consist of one paper with 80-120 multiple-choice questions (single best answer out of four options). 10 unscored items can be added for pretesting purposes.

Passing Score:

The passing score is 70%. However, if the percentage of candidates passing the examination before final approval is less than 70%, the passing score must be lowered by one mark at a time aiming at achieving 70% passing rate or 65% passing score whichever comes first. Under no circumstances can the passing score be reduced below 65%.



Blueprint Outlines:

No.	Sections	Percentage (%)
1	Cardiac Pharmacology	6%
2	Cardiac Physiology	6%
3	Paediatric Cardiac	10%
4	Adult Cardiac ¹	25%
5	Interventional cardiology	4%
6	Monitoring + TEE	14%
7	ICU	9%
8	Haemostasis	9%
9	Cardiac for non-Cardiac procedures	9%
Research, Ethics and Professionalism and Patient Safety		8%
Total		100%

Adult Cardiac ¹ include:

- Ischemic Heart Disease
- Valvular Disease
- Major Vascular Disease
- Cardiac and lung Transplant
- Adult Congenital Cardiac Disease

Note:

Blueprint distributions of the examination may differ up to +/-3% in each category.

Suggested References:

- A Practice of Anaesthesia for Infants and Children 5th Edition: C.J Cote, J. Lerman, B. Anderson.
- Chestnut's Obstetrics' Anaesthesia Principles and Practice 4th Edition: D Chestnut, L Polly, L Tsen, C Wong.
- Inkling 101 and the Elements of Style
- Kaplan's Cardiac Anesthesia 7th Edition: JL. Kaplan, JGT. Augoustides, D L Reich, GR Manecke.
- Kaplan's Cardiac Anesthesia: The Echo Era 6th Edition: J. Kaplan, D. Reich, J. Savino.
- Miller's Anesthesia 7th Edition: R. Miller, L. Eriksson, L. Fleisher, W. Young, J. Kronish.
- Yao & Artusio's Anesthesiology: Problem-Oriented Patient Management 8th Edition: FS Yao, V. Malhotra, J. Fong, N. Skubas

**Note:**

This list is intended for use as a study aid only. SCFHS does not intend the list to imply endorsement of these specific references, nor are the exam questions necessarily taken solely from these sources.

Example Questions**EXAMPLE OF K2 QUESTIONS****Question 1**

A patient with previously normal left ventricular function is undergoing elective coronary artery bypass grafting. Immediately after separation from cardiopulmonary bypass, some measurements are noted.

Blood pressure via radial intra-arterial catheter	78/52 mmHg
Heart rate	94 bpm
Pulmonary artery pressure	28/18 mm Hg
Cardiac index	2.7

Which of the following is the most prudent initial intervention?

- A. Direct measurement of intra-aortic pressures to verify radial artery correlation
- B. Addition of a phenylephrine infusion to provide α -receptor-mediated vasoconstriction
- C. Addition of an epinephrine infusion to provide both inotropic support and α -receptor-mediated vasoconstriction
- D. An intra-aortic volume infusion using pulmonary capillary wedge pressures as a guide to the adequacy of left ventricular filling

EXAMPLE OF K1**Question 2**

Which of the following is the cardiovascular change that occurs with advancing age?

- A. Decreasing blood pressure
- B. Increased number of myofibrils
- C. Increase in cardiovascular reserve
- D. Loss of elasticity of the vascular tree