



SAUDI BOARD RESIDENCY TRAINING PROGRAM

Clinical Biochemistry

Part One Examination

Examination Format:

1. Part I Examination of Saudi board certificate shall consist of one paper with 150 multiple-choice questions (single best answer out of four options). Up to 10% unscored items can be added for pretesting purposes.
2. If any other assessment format is used, the Central Assessment Committee must agree to its implementation.

Passing Score:

1. The passing score is 65%.
2. If the percentage of candidates passing the exam before final approval is less than 70%, the passing score can be lowered by one mark at a time aiming at achieving 70% passing rate or a score of 60% whichever comes first. Under no circumstances, may the score can be reduced below 60%.

Suggested References:

1. Clinical Biochemistry: Metabolic and Clinical Aspects. Marshall, W.J. & Bangert, S.K., Elsevier Science Health Science Div.
2. Clinical Chemistry, Marshall, W.J., Elsevier Science Health Science Div.
3. Tietz Textbook of Clinical Chemistry, Burtis, C.A. & Ashwood, E.R., WB Saunders.
4. Tietz Fundamentals of Clinical Chemistry, Burtis C.A., E.R. Ashwood, D.E. Bruns and N.W. Tietz, WB Saunders.
5. ACB Venture Publications, Various, ACB Venture Publications Guide to Diagnostic Clinical.
6. A Guide to Diagnostic Clinical Biochemistry, Walmsley R. N. and White G. H. Clinical Chemistry, Blackwell Scientific Clinical Chemistry.
7. Clinical Chemistry: Theory, Analysis, Correlation, Kaplan L.A. , Pesce A.J. , and Kazmierczak S.C., Mosby.
8. Clinical Chemistry in Diagnosis and Treatment, Day A., Mayne P. and Mayne P.D., Hodder Arnold.
9. Clinical Biochemistry: An Illustrated Colour Text, Stewart M.J., Shepherd J., Gaw A., Murphy M.J., Cowan R.A. and O'Reilly D. J., Churchill Livingston.

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.

Blueprint Outlines:

No.	Sections	Percentage (%)
1	Pre-analytical clinical	23
2	Analytical clinical	20
3	Post-analytical clinical	7
3	General chemistry	12
5	Endocrinology and tumour markers	10
6	Therapeutic Drug Monitoring (TDM) and toxicology	6
7	Metabolic chemistry and newborn screening	5
8	Molecular biochemistry and acid bas balance	5
9	Point of Care Testing (POCT)	5
Research, ethics, professionalism and patient safety		7
Total		100%

Note:

- Blueprint distributions of the examination may differ up to $\pm 3\%$ in each category.
- Percentages and content are subject to change at any time. See the SCFHS website for the most up-to-date information.



Example Questions

EXAMPLE OF K2 QUESTIONS

Question 1

Specimens collection tubes for plasma glucose analysis usually contain sodium fluoride.

What is the function of sodium fluoride in these tubes?

- A. Inhibits glycolysis
- B. Precipitates proteins
- C. Serves as a coenzyme of hexokinase
- D. Prevents reactivity of non-glucose reducing substances

EXAMPLE OF K1

Question 2

A 2-year-old child presents to the clinic. He is overweight and he has coarse features. He is described as being somewhat dwarfed. He has a history of decreased serum thyroxine (T4).

Which of the following is the most informative additional blood test?

- A. Cholesterol
- B. Triiodothyronine (T3)
- C. Thyroid Binding Globulin (TBG)
- D. Thyroid Stimulating Hormone (TSH)