

منهاج الامتحان التنافسي لطلبة الدراسات العليا لطب الكيمياء الحياتية السريرية :

1. Chemistry, metabolism and pathophysiology of carbohydrates.
2. Chemistry, metabolism and pathophysiology of amino acids and proteins.
3. Chemistry, metabolism and pathophysiology of lipids.
4. Chemistry and metabolism of DNA and RNA.
5. Disorder of purines and pyrimidines.
6. Recombinant DNA technology.
7. Inborn errors of metabolism.
8. Vitamins.
9. Cell membrane.
10. Digestion and absorption.
11. Chemistry of enzymes and diagnostic enzymology.
12. Hormones.
13. Heme metabolism, porphyria and hemoglobin disorders.
14. Plasma proteins.
15. Mineral and trace elements.
16. Nutrition.
17. Xenobiotics.
18. Tests of gastrointestinal and pancreatic function.
19. Cancer chemistry and tumor markers.
21. Muscle chemistry.
22. Metabolic response to injury.
20. Renal function tests.
21. Liver function tests.
22. Laboratory animals.
23. Homogenization.
24. Chromatography.
25. Colourimetry, spectrophotometry.
26. Flurometry and atomic absorption.
27. Radioimmuno assay.
28. Enzyme and DNA, isolation and purification.
29. Electrophoresis.
30. Water , Na⁺, K⁺ balance and disturbances,
31. Acid-base disorders and buffer systems.
32. Organic chemistry.
33. Analytical chemistry.