- Q uestion bank 2021-2022
- 1.Describe methods available for measurement of calcium in biological fluids.
- 2. Outline the principles of quality management for a clinical biochemistry laboratory.
- 3. An apparently healthy 45 year old woman is found to have a serum calcium concentration of 25 mg/dL, when tested as part of a routine health check. Discuss the possible causes and suggest a logical scheme for any further investigations required.
- 4. Describe the measurement of total cholesterol
- 5. Describe the regulation of the calcium concentration in plasma, and the abnormalities in this that may develop in adults.
- 6. Describe the investigation of hypertension in a 30-year old man.
- 7. Describe the role of bone markers in the investigation of metabolic bone disease
- 8. Using examples as appropriate, describe the use of enzymes as reagents in clinical biochemistry, including the advantages and disadvantages of their use.
- 9. Write a detailed description of spectrophotometric analysis
- 10. Write a critical discussion of the methods available for measurement of Bilirubin in serum.
- 11. Describe the differential diagnosis, investigation and management of a 45-year old woman with hypercalcaemia
- 12. Which one of the following abnormal conditions can be tested by monitoring prealbumin levels?
- A. Prostate cancer B. Malnutrition. C. Appendicitis. D. Fungal infection.
- E. Skin cancer
- 13. Which is found in obstructive jaundice?
- A. High serum unconjugated bilirubin B. High serum conjugated bilirubin
- C. Dark stools due to increased bilirubin metabolites D. Low serum unconjugated bilirubin
- 14. Low serum unconjugated bilirubin
- A.LDL B.HDL C.VLDL D.TG
- 15. Which of the following is true of type II diabetes mellitus?
- A. Is the least common form of the disease. B. Is mostly diagnosed in juveniles, age 9-to-14.

- C. Is mostly diagnosed in those over the age of 40yrs. D. Has an absolute requirement for insulin replacement to preserve life
- 16. Discuss the significance of plasma albumin levels in health and disease.
- 17. Brief description of proteins present in plasma and what the predominant proteins are
- 18. The principal immunoglobulin that crosses the placental barrier is
- A.IgA B.IgE C.IgG1 D. IgM
- 19. What is a possible interpretation of a patient with an elevated ionized calcium with a normal total calcium level?
- 20. Decreased cholesterol and LDL with normal triglycerides suggest (which disease)
- 21. Define the following terms
- 22. Describe the following disease
- 23. Write (T) true and (F) false for the following
- 24. Explain the Liver function tests
- 25.Parts of spectrophotometric device