

Post Graduation Preliminary Examination
Government Medical College , Bhavnagar
Subject : Biochemistry

Total Marks - 600

- 1) Parameter Analysis, Interpretation and co-relation discussion on below clinical case. (100)
Visit patient with MRD:23/53354 at ICU, Bed No C-4 .Take note of patient's history, physical examinations, radiological and laboratory examinations and treatment/procedures done using case papers available. Talk to patient only if patient is comfortable. Do not perform any physical examination.
 - a) List laboratory examinations required in the patient based on current status.
 - b) Perform such examinations in the patient's sample (if available at biochemistry laboratory)
 - c) Perform as well as parameter for thyroid and cardiac function.
 - d) Prepare detailed report on biochemical basis of clinical features, laboratory reports and treatments given.
- 2) Perform patient sample electrophoresis with appropriate control sample and write it's principle, method, interpretation and final remarks. (100)
- 3) Perform internal audit of biochemistry section of LSSTH as per ISO:15189:2012 & updated NABL-112 of clause 4.6, 4.14, 5.1, 5.4, 5.8. Prepare internal audit report with require immediate action, corrective action and preventive action. (50)
- 4) Evaluate EQAS report of February 2023 of ALT, LDL-Cholesterol and Magnesium parameter. Also calculate total error of these parameter. (50)
- 5) Perform comparison of Glucose measurement between ERBA-V5 Semi Auto Analtzer and Architech Full Automated Chemistry Analyzer (50)
- 6) Perform training for Quality Management System (as per ISO 15189:2012 clause 5.1.5.a) with five technical staff of biochemistry section. Prepare pre and post training evaluation report. (50)
- 7) Perform the root cause analysis of outliers of BioRad IQC (Lot 89700) in Urea occurred in March 2023. Give your over all view on it's L-J chart with required corrective and preventive action. (25)
- 8) Perform urinary analysis for abnormal constitute of it. (25)
- 9) Microteaching on Metabolic and Endocrinal changes in case of Chronic Renal Failure and Viva. (50)
- 10) Theory and Dissertation Viva (100)

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- 1) Visit patient with MRD: 23/00051772 at 1st Floor , B-Block. Take note of patient's history, physical examinations, radiological and laboratory examinations and treatment/procedures done using case papers available. Talk to patient only if patient is comfortable. Do not perform any physical examination. (100)
 - a) List laboratory examinations required in the patient based on current status.
 - b) Perform such examinations in the patient's sample (if available at biochemistry laboratory)
 - c) Perform test for given patient's urine sample. (for normal and abnormal constituents)
 - d) Prepare detailed report on biochemical basis of clinical features, laboratory reports and treatments given.
- 2) Perform patient sample electrophoresis with appropriate control sample and write it's principle, method, interpretation and final remarks. (100)
- 3) Perform internal audit of biochemistry section of LSSTH as per ISO:15189:2012 & updated NABL-112 of clause 4.5, 4.9, 5.3, 5.6, 5.10 .Prepare internal audit report with require immediate action, corrective action and preventive action. (50)
- 4) Evaluate EQAS report February 2023 of Glucose, Chloride and Total T4 parameter. Also calculate total error of these parameter. (50)
- 5) Perform comparison of Total Protein between ERBA-V5 Semi Auto Analtzer and Architech Full Automated Chemistry Analyzer (50)
- 6) Perform competency check for BioMedical Waste Management (as per ISO 15189:2012 clause 5.1.6.e) with five technical staff of biochemistry section. Prepare a report on their competency finding (50)
- 7) Find new mean and S.D. update for newly implemented IQC lot in March 2023 (25)
- 8) Visit sample collection area. Review document and records and observe work. Prepare note on gaps found and possible solution. (25)
- 9) Microteaching on Methology of Iron, TIBC and Ferritin estimation and it's clinical significant and Viva. (50)
- 10) Theory and Dissertation Viva (100)