Maharaja Krishnakumarsinhji Bhavnagar University

Post Graduation University Practical Examination for M.D. - Biochemistry Examination Centre: Government Medical College, Bhavnagar

Subject : Biochemistry

Date : 24 & 25 /10/2024 (Day-1)	Total Marks -
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600

1. Long Case - Parameter Analysis, Interpretation and co	-relation discussion on	below clinical case.	(150
Patient Detail : MRD	Sample ID	21066	

This male patient, aged 56 years, came in emergency with alter-conciuosness. There were history of chronic alcoholism. On examination, it was found that he has edema on both lower limb, fluid collection in peritoneal cavity (Ascites), yellowish discolouration of skin & sclera (icterus), with hypotension (decrease Blood Pressure). Physician asked for blood investigation and abdominal ultra - sonography.

• Ultra Sono-Graphy detected

- ✓ Cirrhosis & Fatty Liver with Huge ascites
- ✓ With dilated Portal vein suggestive of Portal Hypertension

Physician advise to give Following treatment

- ✓ Injection Dextran
- ✓ Injection 10% Dextrose with Injection Thiamine (B1)
- ✓ Injection Vitamin K
- ✓ Injection 10% Albumin
- ✓ Oral Neomycin (Anti-microbial, Antibiotic)
- ✓ Liq Lactulose (Laxative)
- ✓ Oral Phenylbutarate

Answer The Following.

- A. List and do analysis of laboratory examinations required in the patient based on current status.
- B. Perform test for given patient's urine sample analysis.
- C. Justify each abnormal parameter significance with patients present clinical status.
- D. Perform quality check for 5 critical parameter.
- E. Detailed report on biochemical basis of clinical features, laboratory reports and treatments given.

1. Short Case - Parameter A	nalysis, Interpretation and co-relation discussion on below clinical case. ((100)
Patient Detail : MRD	Sample ID	

LSSTH Bhavnagar is NABL accreditated since 2011. Do evaluation of raised daily non-confirmities of clinical biochemistry laboratory of 2023 and 2024. On basis of evaluation perform following.

- A. Categorized non-confirmities
- B. Sort and prioritized non-confirmities with it's specific objective criteria
- C. Write probable risk management of first ten sorted non-confirmities.
- D. On basis of risk management, prepare documented evidence (presentation or doc file) to show continual improvement.

2. Internal Audit of Clinical Laboratory as Per ISO 15189:2012

(75)

Perform internal audit of biochemistry section of LSSTH as per ISO:15189:2022 & updated NABL-112 of clause 5.4, 5.5, 5.6, , 6.5, 6.6, 6.7, 6.8, 7.2, 7.3 .8.5, 8.6, 8.7, 8.8.

Prepare internal audit report with require immediate action, corrective action and preventive action defined NABL format.

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Post Graduation University Practical Examination for M.D. - Biochemistry **Examination Centre: Government Medical College, Bhavnagar**

Subject : Biochemistry

Date : 24 & 25 /10/2024 (Day-2)		
3. Micro-teaching on Following Topic & Followed by Discuss	ion	(75)
A. Phenylketonuria		
B. Diabetic ketoacidosis		
C. RiQAS Interpretation		
4. IQC Analysis - RCA & Action	(25)	
Perform the root cause analysis (RCA) of outliers / trend / sover all view on it's L-J chart with required corrective and p		Give your
5. Performance check of Semi- Auto analyzer through any en	nd point estimation parameter	(25)
6. Dissertation Viva		(50)
7. Theory Viva		(100)

------The End-----