

Roll No:

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M.Sc. Biochemistry, Semester-III Examination-2023
Paper Title: Clinical Biochemistry
Paper Code: MBC- 304 (A)

Time: 1.5 hours

Max Marks: 38

***Note:** This paper has 3 sections A, B, and C, Attempt all the three sections
Section A: Answer all the questions; Section B: Answer any 1 out of 2; Section C: Answer all the questions, each question has an internal choice*

Abbreviations Used

CLO- Course Learning Outcome, PLO- Program Learning Outcome, BTL- Bloom Taxonomy Level: BT level 1-Remember; BT level 2-Understand; BT level 3-Apply; BT level 4-Analyse; BT level 5-Evaluate, BT level 6-Create

Section A (Attempt all questions)

(8 x 1 = 08 Marks)

Answer in one word/ identify/write an appropriate term that properly describes each of the following:

Q. No.	Questions	BTL	CLO	PLO
a	Protein conglomerates outlining the shape of renal tubule in which they are formed.	2	4	7
b	Identify the molecule which is not an anticoagulant: ACD, EDTA, Warfarin, Vitamin K	1	3	4
c	The condition where cerebrospinal fluid extremely rapidly forms pellicle after collection.	2	4	7
d	Opening/ puncture of vein to collect blood.	5	3	8
e	Graphical tool/technique which better determines Systematic errors.	4	5	2
f	NABL is an abbreviation used for ...	4	5	3
g	What will be the blood pH when the bicarbonate concentration in it is 25 mmol/L and dissolved carbon dioxide is 1.25 mmol/L. Hint: pKa, 6.11.	2	5	3
i	Scarring (fibrosis) of the liver tissue which prevents the liver from working properly and which is also sometimes called the end-stage liver disease.	2	4	7

SECTION B: Long type Questions (Attempt ANY ONE out of TWO) [15 Marks]

Q. No	Questions (Any One)	BTL	CLO	PLO
1	What do you understand by the Quality control in Clinical Biochemistry? Describe in detail one of the methods used to ascertain quality in clinical lab investigations.	2	3	2
2	Give a detailed account of the kidney function and kidney function tests.	2	5	5

SECTION C: Short-type Questions. (Attempt ANY THREE out of EIGHT)

[3 x 5 = 15 Marks]

Q. No	Questions (Any Three)	BTL	CLO	PLO
1	Interferents in a biochemical assay			
2	The processing, storage and stability of a biological samples	2	4	7
3	Serum separator devices	1	3	4
4	Uses of a biochemical test	2	3	2
5	Methods of isoenzyme analysis	2	5	3
6	Use of enzymes as diagnostic tool	4	5	2
7	Pathological conditions of the liver	2	5	3
8	Criteria for the selection of biochemical methods	2	5	5
