

SHRI RAMSWAROOP MEMORIAL UNIVERSITY

Problem Set-I

Session	2017-2018 (Even Sem.)	Semester	IV
Course	B. Sc. (H)	Subject code	BBT4022
Branch	BT	Subject Name	Clinical Biochemistry
Group	41	Name of Faculty member	Prof. Sanjiv Kumar Maheshwari
Unit	I	Topic covered	Clinical Biochemistry, Body fluids, Blood and their constituents

Note: All questions are compulsory.

Section-A Very Short Answers type questions.

(10x1=10)

1. Define Clinical Biochemistry.
2. Blood is considered as liquid tissue Justify.
3. Enlist three different body fluids.
4. Describe various roles of Clinical Biochemist in patient care.
5. What is the composition of Hemoglobin?
6. Write two constituents of blood.
7. Highlight important functions of blood proteins.
8. How does the RBCs shape helps in carrying oxygen?
9. Role of POCT.
10. Where does the red blood cells are produced?

Section-B Short Answer type questions.

(5x4=20)

1. Define plasma composition and its functions.
2. Enlist different types of formed elements present in blood.
3. Write short note on how the pH of blood is regulated so closely in animal systems?
4. Describe mechanism of removal of gases from the body by blood system.
5. What physiological circumstances leads to erythroblastosis fetalis?

Section-C Long Answer type questions.

(2x10=20)

1. Write a detailed note on the composition of blood. Elaborate the functions of the formed elements in detail.
2. On average what is the life span of Erythrocytes. Where are they destroyed? What happens to the hemoglobin of the erythrocytes once they are destroyed?

Text Book / Reference Book:

1. Murray RK and Payes MK (ed) Harper's Illustrated Biochemistry, Lang MacGraw Hill Publications NewYork.
2. Lubert Stryer Biochemistry, WH Freeman NewYork.

(Signature of Faculty with date)

Sanjiv
31/1/18.

(Signature of Director with date)

Sanjiv
31/1/18