

[43/A-10]

SEAT No. _____

No. of Printed Pages : 2

SARDAR PATEL UNIVERSITY
B.SC. 6th Semester Examination 2019
Subject Code: US06CBCH04
(Clinical Biochemistry)
Monday, 1st April. 2019

10:00 AM. To 1:00 PM

Total Marks: 70

Q1. Choose the correct option and write it in the answer sheet: [10]

1. Blood does not contain.
a) Calcium
b) Fibrinogen
c) Prothrombin
d) Elastin.
2. Coagulation of blood occurs due to.....destruction of
a) RBC
b) WBC
c) Lymphocytes?
d) Platelets
3. Water, urea and other wastes are eliminated in a fluid called.
a) C.S.F.
b) Urine
c) Plasma
d) Bile.
4. Cessation of urine flow is defined as.
a) Azotemia
b) Anuria
c) Diuresis
d) Micturition
5. Which of the plasma protein is not involved in iron homeostasis?
a) Heptoglobin
b) Ferritin
c) Transferin
d) Albumin
6. Van den Bergh reaction is direct positive in Jaundice
a) Hemolytic
b) Obstructive
c) Hepatocellular
d) All above.
7. One of the following is clearance test to measure GFR.
a) Inulin
b) A/G
c) Bilirubin
d) Total protein.
8. Pernicious anemia is due to lack of
a) Vit B12
b) Iron
c) Folic acid
d) Vit C.
9. Fetal Hb contain globulin chain.
a) 2 α and 2 β
b) 2 α 2 γ
c) 2 α and 2 α
d) 2 β and 2 β
10. Macrocytic anemia caused by lack of.
a) Folic acid
b) Iron
c) Calcium
d) None.

(P.T.O)

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Q2. Answer the followings in short (any ten)

[20]

1. Blood is also serves as a medium for disposing of metabolic waste, explain.
2. The synthesis of major biomolecules such as proteins, nucleic acids, fatty acids, glycogen does not occur in RBC why?
3. Why estimation of serum albumin is used as a liver function test?
4. Write names of various antibodies and blood clotting proteins.
5. Hydrophobic substances need transporters in blood circulation why?
6. What is atherosclerosis?
7. Define oligouria, nocturia and polyuria.
8. What is physiological jaundice?
9. Write importance of organ functions tests.
10. What are causes of anemia?
11. Why calcium is important factor in blood clotting mechanism?
12. Hb is known as life giving protein. Why?

- Q3. A) Explain blood performs several functions. [05]**
B) What is clinical biochemistry? Define plasma and write names of various NPN and plasma proteins. [05]

OR

- Q3. A) Discuss the biochemical functions of blood cells [05]**
B) Write notes on functions and composition of C.S.F. [05]

- Q4. A) Discuss about iron binding plasma glycoprotein [05]**
B) Write in detail about chemistry, clinical significance and functions of Albumin [06]

OR

- Q4. A) Write about blue coloured protein. [04]**
B) Write detail notes on α AT. [06]

- Q5. A) Discuss about four groups of renal function tests. [06]**
B) Define GFR and write functions of kidney. [04]

OR

- Q5. A) Write notes on hemolytic jaundice. [04]**
B) Define conjugated, unconjugated bilirubin and write notes on Van den Bergh reaction to assess serum bilirubin [06]

- Q6. Discuss in detail about functions, structure and types of Hb [10]**

OR

- Q6. Draw the intrinsic, extrinsic and common pathway for blood coagulation and write detail about role of thrombocytes. [10]**