

(35 &amp; A-15) SEAT No. \_\_\_\_\_

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SARDAR PATEL UNIVERSITY  
 B.Sc. - VI Semester Examination 2018, VI SEM,  
 Monday 2nd April.  
 10.00 AM. to 1.00 PM.  
 Subject Code: US06CBCH04  
 (Clinical biochemistry)

Total Marks: 70

Q1. Choose the correct option and write it in the answer sheet

[10]

1. Plasma .....
  - a) Constitutes 45% blood
  - b) Contain platelets.
  - c) Is fluid part of blood
  - d) Contain corpuscles
2. The % of formed elements in the blood.
  - a) 45.
  - b) 55
  - c) 65
  - d) 35
3. the formation of blood clot is known as
  - a) Erythropoiesis
  - b) Oxidation
  - c) Coagulation
  - d) Phosphorylation.
4. Which enzyme is more liver specific?
  - a) SGOT
  - b) SGPT
  - c) LDH
  - d) SDH.
5. Poor GFR is an indication of probable malfunctioning of
  - a) Liver
  - b) Lung
  - c) Brain
  - d) Kidney.
6. One of followings is not involve in Iron homeostasis
  - a) Tf
  - b) Haptoglobin
  - c) Ferritin
  - d) Ceruloplasmin.
7. Urea clearance bellow 60% of standard is considered.
  - a) Normal
  - b) high
  - c) very high
  - d) Impaired.
8. Protein in urine is noticely increase in
  - a) Hemolytic jaundice
  - b) Hemolytic anemia
  - c) Typhoid
  - d) Renal disease.
9. HbA1c.....
  - a) Hydroxylated HbA
  - b) Glycosylated Hb
  - c) Embryonic Hb
  - d) None of these.
- 10 Indirect Vanden Bergh reactions indicate jaundice.
  - a) Hemolytic
  - b) Obstructive
  - c) Hepatic
  - d) none of these.

Q2. Answer the followings in short (any ten)

[20]

1. Define Clinical biochemistry.
2. What are Lipoproteins and Apoproteins ?
3. Hb is the best example of quaternary contained protein. Justify.
4. Explain Ceruloplasmin is metalloprotein.
5. What are major types of diseases?
7. Write MW of Haptoglobin and write its approximate numbers of Amino acids.
8. What are Crigler -Nujjar syndrome type- I?
9. Why free heme group is toxic?
10. Write importance of organ functions tests.
11. How will you perform Vandenberg test?
12. What is normo chromic normocyte anaemia?

(1)

(P.T.O.)

[P.T.O.]

- Q3. A) Write functions of Blood. [05]  
B) Write importance of Erythrocytes and Leucocytes. [05]  
**OR**
- Q3. A) Write normal and abnormal components of Urine. [05]  
B) Define disease and write about its causes. [05]
- Q4. A) What are plasma proteins? Write notes on Transferrin. [04]  
B) Discuss in detail about chemistry and functions of Albumin. [06]  
**OR**
- Q4. Write detail notes on lipoproteins and factors which affect HDL. [10]
- Q5. A) Discuss about three types of Jaundice. [06]  
B) Write notes on inulin Clearance test. [04]  
**OR**
- Q5. A) Describe in detail about acute glomerulonephritis. [06]  
B) Write functions of kidney. [04]
- Q6. Classify Anaemia and write about haemolytic and sickle cell anaemia in detail. [10]  
**OR**
- Q6. Discuss in detail role of Platelets and various factors affecting blood coagulation. [10]