

SEAT No. _____

No. of printed pages: 02

[57]

SARDAR PATEL UNIVERSITY
M.Sc. Biomedical Science, Third Semester External Examination
Saturday, 2nd January 2021
Time: 10.00 a.m. to 12.00 p.m.
Paper Code: PT03CBMC22
(Clinical Biochemistry)

Total Marks- 70

Note: i) Attempt all questions.
ii) Marks are indicated on the right hand side.

Q.1 A Answer the following Multiple Choice Questions. All are compulsory

[08]

- Which is the factor not affecting the fluid electrolyte balance?
a) Age b) Diet c) Stress d) Skin
- Which colour cap tube contains no additive?
a) Green b) Lavender c) Red d) Yellow
- The classic symptoms of untreated diabetes are
a) Polyuria b) Polydipsia c) Polyphagia d) All of the above
- Increased LDH is an important marker for
a) Bulky disease b) Lymphoma c) Liver metastasis d) Lung metastasis
- What is the treatment for haemophilia?
a) Replacing the clotting factor b) Gene therapy c) Diet d) Surgery
- Severity of TTP is checked by the degree of
a) Anemia b) Thrombocytopenia c) Serum LDH level d) All of above
- _____ is the volume of resting contents.
a) 20-50 ml b) 20-60 ml c) 100-120 ml d) 70-80 ml
- pH in gastric lumen is _____.
a) 0.7 b) 0.8 c) 0.6 d) 7.4

Q.1 B Answer the following

[16]

- _____ Good markers for environment tobacco smoke exposure in children.
- Whole blood is used for the analysis of _____.
- _____ is salts dissolved readily into true solution.
- Lactose is a disaccharide of _____ and _____ in β (1,4) linkage.
- In toxic injury to the liver due to poisoning by compounds like carbon tetrachloride, arsenic, lead etc. TRUE/ FALSE
- Human Milk contains _____ of lactose.
- In the body compositions of older adults 45-60 % water and 40-50 % solids presents. TRUE/ FALSE
- Which vitamin is involved in the clotting of blood?
- What prevents clotting of blood in blood vessels?
- _____ deficiency causes purpura.

[PTO]

[1]

11. SGOT reaction is based on which reaction?
12. The main symptom of hemophilia is _____.
13. MIT and DIT combined to form T3. TRUE/ FALSE
14. T4 is most biologically active thyroid hormone. TRUE/ FALSE
15. Angiotensin-II involved in the electrolyte balance in kidney. TRUE/ FALSE
16. Define Jaundice

Q-2 Attempt Any Seven of the following

[14]

1. Write down the factors affecting GTT.
 2. What are the causes of fatty liver?
 3. What is Niemann pick disease?
 4. Write the clinical significance of choline esterase.
 5. Enlist isoenzymes and write their diagnostic uses.
 6. What are acquired prothrombin disorders?
 7. Enlist the different types of renal function test.
 8. Draw the structure of T3 and T4.
 9. Explain the term GFR.
- Q.3** Which factors affecting fluid and electrolyte balance? Write down the short note on the sodium ion. [08]
- OR**
- Q.3** a) What are the aims of samples collections and give the examples of biological samples. [04]
b) Write a short note on ECF. [04]
- Q.4** Write down the note on laboratory tests for screening Diabetes. [08]
- OR**
- Q.4** a) Write down the short note on Phenylketouria [04]
b) Write down the short note on Maple syrup urine disease. [04]
- Q.5** a) Write types and location of CPK in humans [04]
b) Write a note on LDH. [04]
- OR**
- Q.5** Discuss in detail various globulin proteins giving emphases on its function, properties, synthesis and types. [08]
- Q.6** Write an extensive note on Gastric Function tests. [08]
- OR**
- Q.6** a) Write in detail about the functions of liver. [04]
b) Write in brief about the tests useful to distinguish different types of jaundice. [04]

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