



Sri Devaraj Urs ACADEMY OF HIGHER EDUCATION & RESEARCH
 (A DEEMED TO BE UNIVERSITY)
B.Sc. Medical Laboratory Technology (MLT)
Third Year (Semester-V)
September 2021 Examination.

Time : 2.30 Hrs.

[Max. Marks : 80]

Biochemistry

Q.P Code : AHS-105

Your answers should be specific to the questions asked.
Draw neat labelled diagrams wherever necessary.

Long Essay

2 x 10= 20 Marks

1. List the Liver function tests parameters. Classify Liver function tests & explain the tests to assess detoxification function of liver (2.5+5+2.5)
2. Write the Biological reference range of serum calcium? List the sources, RDA and factors affecting the absorption of calcium. Describe in detail the homeostasis of calcium in blood (1+1+1+2+5)

Short Essay (Answer any Six)

6 x 05= 30 Marks

3. Define Jaundice. Classify jaundice & mention the causes for each type of jaundice (1+2+2)
4. Define Renal clearance test. List the three clearance test. Briefly explain any one of the clearance test (1.5+1.5+2)
5. Write the enzyme deficient : (1) Alkaptonuria (2) Phenylketonuria (3) Von gierke's disease (4) Galactosemia (5) Lactose intolerance (5X1)
6. Mention any three causes for formation of gall stones. Describe the formation of stones in the gall bladder (3+2)
7. Briefly describe the transport and storage of Iron (3+2)
8. Ferric chloride test: Principle, procedure and interpretation of various Inborn Errors of metabolism (1+1+3)
9. Briefly explain the formation and composition of renal stones (2+3)
10. Briefly describe the steps of synthesis of bilirubin (05)

Short Answer (Answer any Ten)

10 x 03= 30 Marks

11. List any three biochemical parameters estimated in Ascitic fluid (1+1+1)
12. Write the two inborn errors of copper metabolism (1.5+1.5)
13. List any two enzymes in diagnosis of acute pancreatitis (1.5+1.5)
14. List any three parameters of thyroid function test (1+1+1)
15. Define Jaundice. Write the biological reference range of Total Bilirubin & direct Bilirubin (1+2)
16. Mention the biochemical alteration in characteristic features of cerebrospinal fluid in Tubercular meningitis (03)
17. Define Specific gravity of urine. Write the specific gravity of normal urine (2+1)
18. Name the qualitative tests in URINE to detect : (1+1+1)
(a) Reducing sugars (b) Blood (c) Ketone bodies
19. Write the Biological Reference range of serum levels of (a) Sodium (b) Potassium (c) Chloride (1+1+1)
20. Selwinoff's test: Principle and importance (1.5+1.5)
21. Define (a) Hematuria (b) Glycosuria (1.5+1.5)
22. Write the Biological reference range of Phosphorus and list any two functions of Phosphorus (1+2)