# Rajiv Gandhi University of Health Sciences, Karnataka

Third Year B.Sc. Medical Laboratory Technology Degree Examination – 15-May-2025

Time: Three Hours Max. Marks: 100 Marks

## BIOCHEMISTRY – III (RS-4) Q.P. CODE: 3282

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

#### **LONG ESSAYS (Second Question Choice)**

 $2 \times 10 = 20 \text{ Marks}$ 

- 1. Define variables. Write a note on pre-analytical, analytical and post analytical variables
- 2. Write a note on theory of formation and analysis of renal and gall stones

OR

Describe various tests employed to assess liver function

### **SHORT ESSAYS (Question No 5 & 10 choice)**

 $10 \times 5 = 50 \text{ Marks}$ 

- Classification and characteristics of tumor markers
- 4. HMP shunt pathway
- 5. Functions of thyroid hormones

OR

Salient features of genetic code

- 6. ELISA and its application
- 7. Types of jaundice
- 8. Point of care testing
- 9. Quality control charts
- 10. Write a note on mutations

OR

Lipoproteins and their significance

- 11. AFP (Alpha Feto Protein)
- 12. Glycogen storage disorders

#### **SHORT ANSWER**

 $10 \times 3 = 30 \text{ Marks}$ 

- 13. Isoenzymes
- 14. **CA**-125
- 15. Normal serum levels of total bilirubin and its significance
- 16. Enumerate the steps of protein synthesis
- 17. Functions of albumin
- 18. Gout
- 19. Sensitivity and specificity
- 20. Arterial blood gas analysis
- 21. Biological important compounds synthesized form cholesterol
- 22. Order of sample draw for venous blood collection

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