Rajiv Gandhi University of Health Sciences, Karnataka
Third Year B.Sc. Medical Laboratory Technology Degree Examination – 12-Dec2022

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. Classify Jaundice. Write in detail about bilirubin metabolism
- 2. Define quality control. Add a note on internal and external quality control programme

OR

List the various renal function tests. What is the glomerular filtration rate? Write in detail creatinine clearance test

SHORT ESSAYS (Question No 5 & 10 choice)

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

- 3. Name plasma proteins and enumerate the functions of plasma proteins
- 4. Ion selective electrodes
- 5. Post transcriptional and translational modification

OR

Frederickson's classification of hyper lipoproteinemia

- 6. Isoenzymes
- 7. Renal regulation of acid base balance
- 8. Write briefly about osmometry
- 9. Semi conservative DNA replication
- 10. Write in detail about CSF analysis

OR

Procedure of ammonium chloride loading test and interpretation

- 11. Discuss about Phenyl Ketonuria and Alkaptonuria
- 12. Mention a preparation of calibration curve. Add a note on its uses

SHORT ANSWER

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

- 13. Variable in quality control
- 14. Enumerate different forms and location of creatinine kinase
- 15. Cardiac Troponins
- 16. Normal serum levels of TSH T₃ and T₄
- 17. Oncogenes
- 18. Disorders of acid base balance
- 19. Define Jaundice. Write the normal value of total. Conjugated and un-conjugated bilirubin
- 20. Order of draw for venous blood collection
- 21. Diagnostic significance of alkaline phosphatase
- 22. Chemiluminescence
