

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (MLT) Degree Examination - 12-Dec-2022

Time: Three Hours

Max. Marks: 80 Marks

BIOCHEMISTRY – PAPER III (RS-3)

Q.P. CODE: 3159

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAY (Any Two)

2 x 10 = 20 Marks

1. Explain in detail HMP shunt and write its significance.
2. Explain the principle, instrumentation and uses of Atomic absorption spectrophotometry.
3. Explain the hormonal regulation of serum calcium level add a note on the functions and deficiency features of calcium.

SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

4. Outline the steps of beta oxidation of fatty acids.
5. Post transcriptional modifications.
6. Role of blood buffers in pH regulation.
7. Detoxification by conjugation.
8. Write any 5 qualitative tests for the analysis of renal calculi.
9. Classify tumor markers and give examples.
10. Dietary fibres.
11. Functions of phosphorous.

SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. Kwashiorkor.
13. What is the difference between semiautomated and fully automated analysers used in laboratory?
14. Define Coefficient of Variation.
15. Uses of Vitamin K.
16. Vandenberg test.
17. Cardiac troponins.
18. Hereditary fructose intolerance.
19. Chemiluminescence-principle and use.
20. Functions of albumin.
21. Hemosiderosis.
22. Write the normal serum range of potassium, sodium and chloride.
23. Name the enzymes used in ELISA.
