Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (MLT) Degree Examination - 23-Dec-2022

Time: Three Hours   Max. Marks: 80 Marks

BIOCHEMISTRY – PAPER II (RS3)
Q.P. CODE: 3156

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 the formation of urea. Add a note on energetics, regulation and disorders of urea cycle.
2. Explain Renal Function Tests in detail.
3. Define enzymes. Explain the factors affecting enzyme activity.

SHORT ESSAY (Any Six)   6 x 5 = 30 Marks

4. Diabetes mellitus-types and diagnosis.
5. Reactions of degradation of purine nucleotides.
6. Structure of DNA.
7. Oral Glucose tolerance test-procedure and preparation of patient.
8. Collection and chemical analysis of cerebrospinal fluid.
9. Functions of Folic acid.
10. Parts and uses of spectrophotometer.
11. 24 hours urine sample – collection, storage and preservatives.

SHORT ANWERS (Any Ten)   10 x 3 = 30 Marks

12. Primary structure of insulin.
13. Give reference range of serum creatinine. Name any two conditions in which it is increased.
14. Define Km, mention its significance.
15. Define a) Molarity b) Percent solution c) Normality.
16. Principle of Nephelometry.
17. Biochemical defect and features of Phenyl Ketonuria.
18. Mention any six normal constituents of urine.
19. What is Mutarotation? Give one example.
20. Limitations of Beer's Law.
21. Name any three glycogen storage diseases with their enzyme defect.
22. Epimers – definition and example.
23. What is Rf value? How it is calculated? What is its application?

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