



Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. (M.L.T) Degree Examination – APRIL 2015

Time: Three Hours

Max. Marks: 80 Marks

BIO-CHEMISTRY – III (RS-2)

Q.P. CODE: 2901

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

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LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. List the various renal function tests. What is glomerular filtration rate? Write in detail Creatinine clearance test.
2. What are radioisotopes? Write their applications and hazards.
3. What are the sources, RDA, and biochemical functions of Iron? Describe in detail the absorption of Fe in the body.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Describe the process of transcription initiation and elongation.

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5. Types of ELISA and their application
6. Metabolic acidosis
7. What are Isoenzymes? Explain in detail any two isoenzymes along with their importance.
8. Regulation of Calcium homeostasis
9. Theory of formation of Renal Calculi
10. Classify jaundice. Describe the biochemical findings in hepatic jaundice.
11. Functional classification of proteins

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

12. Write the biological reference ranges for

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- a) Serum sodium b) Potassium c) Chloride
13. Define Correlation coefficient and Standard deviation.
 14. Mention any three parameters used for the assessment of acid/base status of blood along with their reference range.
 15. Mention the biochemical defect associated with
a) Phenyl Ketonuria b) Tetany c) Wilson's disease
 16. Hypokalemia
 17. What is recombinant DNA technology? Mention any two of its applications.
 18. Titratable acidity
 19. Homocystinuria
 20. What is Genetic code? Mention two characteristics of the genetic code.

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21. Functions of Gastric juice
22. Anion gap
23. Glutathione

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