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Rajiv Gandhi University of Health Sciences, Karnataka I Year B.P.T. Degree Examination - 08-Mar-2021

Time: Three Hours Max. Marks: 80 Marks

BIO-CHEMISTRY (RS-3 & RS-4) Q.P. CODE: 2703

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

LONG ESSAYS (Answer any One)

1 x 10 = 10 Marks

- Explain sources, daily requirement, functions and deficiency manifestations of vitamin D.
- Define balanced diet. Mention the nutritional importance of carbohydrates, proteins and lipids.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

- 3. Classify lipids with suitable example.
- 4. Explain the absorption, distribution and storage of calcium.
- 5. Define BMR. Explain the factors affecting it.
- 6. Define enzymes. Mention any two factors affecting enzyme activity.
- 7. Explain how lipids are absorbed in the Gastro intestinal tract.
- 8. Urea cycle
- 9. Mention important products formed by phenyl alanine and glycine.
- 10. Explain the structural organization of proteins with example.
- Explain the regulation of blood glucose.
- 12. Explain the structure of plasma membrane with suitable diagram.

SHORT ANSWERS

10 x 3 = 30 Marks

- Write the levels calcium and urea in serum.
- 14. Enumerate any two causes of metabolic acidosis.
- 15. What is anion gap?
- 16. Enumerate any two functions of proteins.
- 17. Enumerate any two thyroid function tests.
- 18. Essential amino acids.
- 19. Enumerate any two biologically important compounds produced from cholesterol.
- Invert sugar
- Name any two second messengers
- 22. Functions of Lysosomes.
