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Rajiv Gandhi University & Health Sciences, Karnataka

I Year 13, P.T. Degree Examination - APRIL-2019

**Time Three Hours** 

## 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. Answer all questions

LONG ESSAYS (Answer any Two)

- 1. Explain sources, daily requirement, functions and deficiency manifestations of vitamin A.
- 2. Mention the steps of Tricarboxylic acid cycle. Add a note on energetics.
- 3. What is normal blood pH? Explain the role of kidneys in maintaining acid base balance.

## SHORT ESSAYS (Answer any Eight)

- 4. Functions of calcium
- 5. Explain briefly the process of muscle contraction.
  - 6, Explain the seeps of Glycogenoiysis,
  - 7, Structural classification Of amino acids

S.What are lipoproteins? Mention the functions of lipoproteins

- 9. What are the difference between kwashlorkar and Marasmus?
- 10. Urea cycle
- 11. Mention the factors affecting enzyme activity.
- 12. Explain Ketogenes1s,
- 13. Classify diabetes mellitus. Write the complications of dkabetes mellitus

## SHORT ANSWERS

- 14. Enumerate any two functions of iron.
- 15. Functions of collagen.
- 16. Enumerate any two hormones regulating blood glucose.
- 17. Write any two causes of metabolic acidosis.
- 18. What is the role of ADH in regulation of water?
- 19. Enumerate any two functions of Phosphoiipids.
- 20. What is the normal osmolarity of blood?
- 21. Name any two preservatives used for storage of urine.
- 22. Enumerate any four rich sources of iron.
  - 23, Enumerate deficiency manifestations of Thiamine, Vitamin C.

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10 x 2 = 20 Marks

8 x 5 = 40 Marks

 $2 \times 10 = 10 \text{ Mar}$ 

Max. Marks: SO marks