

## www.FirstRanker.com

www.FirstRanker.com

## Rajiv Gandhi University of Health Sciences, Karnataka

 $\overline{\mathrm{I}}$  Year B.P.T. Degree Examination — SEP-2018

**Time: Three Hours** 

BIOCHEMISTRY (RS-5) Q.P. CODE: 2733

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary **LONG ESSAYS** (Answerany Two)

 $2 \times 10 = 20 \text{ Marks}$ 

Max. Marks: 80 Marks

- 1. Describe B-oxidation. Calculate the energetics of palmitic acid oxidation.
- 2. What is normal pH of blood? How is it maintained?
- 3. Write in detail about glycogenesis and glycogenolysis.

## **SHORT ESSAYS (Answer any Eight)**

 $8 \times 5 = 40 \text{ Marks}$ 

- 4. Classify carbohydrates with suitable examples.
- 5. Describe digestion and absorption of proteins.
- 6. List out functions and deficiency symptoms vitamin D.
- 7. Name any five diagnostic enzymes and mention their clinical significance.
- 8. Describe the secondary structure of proteins.
- 9. Balanced diet
- 10. Blood glucose regulation
- 11. Classification and functions of lipids.
- 12. Draw tRNA and describe its functions
- 13. Name essential fatty acids. Describe its two functions and two deficiency symptoms.

SHORT ANSWERS  $10 \times 2 = 20 \text{ Marks}$ 

- 14. Protein calorie malnutrition
- 15. CAMP
- 16. Metabolic alkalosis
- 17. Alkaptouria
- 18. Normal levels of blood urea and mention two causes of increased blood urea
- 19. Indications for GTT (Glucose tolerance test)
- 20. Describe Pinocytosis and phagocytosis.
- 21. Genetic code
- 22. Calorific value of carbohydrate, protein and lipids
- 23. Biochemical functions of Biotin