

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination - SEP-2018

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. Answer all questions

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Describe Gluconeogenesis and its regulation.
2. Describe the chemistry, sources, RDA, biochemical functions and deficiency manifestations of Vitamin B12
3. Describe the biologically important compounds formed from Phenyl alanine and Tyrosine.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Glycogenolysis and its significance
5. Creatinine clearance test
6. Metabolic changes in Diabetes Mellitus.
7. Metabolic Acidosis
8. Name the ketone bodies and describe ketogenesis.
9. Essential amino acids
10. Dietary fibers
11. Conjugated Proteins
12. Biochemical functions of Phosphate.
13. Regulation of water balance

SHORT ANSWERS

10 x 2 = 20 Marks

14. Mitochondria
15. Normal serum levels of Cholesterol and Triglyceride.
16. Transfer RNA (tRNA).
17. Name the sulphur containing amino acids.
18. Rickets
19. Adenosine Tri Phosphate (ATP).
20. Elastin
21. Bicarbonate Buffer
22. Lipases
23. Nitrogen Balance