

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B,P.I, Degree Examination — SEP-2016

Time; Three Hours

BIOCHEMISTRY (RS-5)

O.P. CODE: 2733

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max. Marics: SO Marks

Your answers should be specific to the questions asked DraiAr neat, labeled diagrams wherever nec-essary

LONG ESSAYS (Answer any Two)

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

- 1. Classify carbohydrates with examples. write biological importance of any two
- 2. Describe the chemistry, source, alosorption, daily requirements, deficiency disorders and biochemical role of vitamin A.
- Describe in deta0 the steps of Urea Cycle. Write the causes of Uremia.

SHORT ESSAYS (Answer any Eight)

 $B \times 5 = 40 Marks$

- 4. What are muc000lysaccarides? Name the functions and composition of four mucopolysacca rides.
- 5. Structure and functions of DNA
- 6. Digestion, acid absorption of lipids- Mention the two causei of fatty stools
- 7. Describe protein structure.
- 8. Explain the functions and deficiency manifestation of Thiamine,
- 9. Gluconeogenesis
- 10. Biological important compounds derived from cholesterol
- 11. 5100-d buffers and their role In acid base balanCe
- 12. Formation and function of collagen

13, Functions of Iron

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

- 14. Define Respiratory Quotient (RQ). Write the RQ values of carbohydrates, lipid and proteins. 15 Protein energy malnutriticill
 - 16. Functions of plasma membrane
 - Renal threshold for glucose and its significance
- 16. Sodium potassium pump
 - Define metabolic alkalosis and mention two causes
 - 20. Mention the functions of cyclic AMP,
 - 21. Normal blood urea Level. Mention two causes of Uremia
 - 22. Alkaptonuria
 - 23. Carnitine cycle •

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