Q.P. Code: 105001	Reg. No.:
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First Professional MBBS Degree Supplementary Examinations January 2019

Biochemistry - Paper I

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw diagrams wherever necessary

Essay (10)

1. Define gluconeogenesis. Describe how glucose is synthesized from alanine and add a note on its regulation. (2+6+2)

Short essays (2x5=10)

- 2. Classify carbohydrates with suitable examples. What are epimers.
- 3. What are the functional and therapeutic role of prostaglandins.

Short notes (5x3=15)

- 4. Formation and characters of peptide bond
- 5. Essential amino acids.
- 6. Competitive inhibition.
- 7. Digestion of proteins
- 8. Significance of 2,3 BPG

Answer briefly (5x2=10)

- 9. What are the criteria to diagnose diabetes mellitus.
- 10. What are exopeptidases and mention examples.
- 11. Uncouplers of oxidative phosphorylation.
- 12. Which is good cholesterol and why it is called so.
- 13. Anaplerotic role of TCA cycle

Give precise answers: (5x1=5)

- 14. Enzyme defect in galactosemia.
- 15. What is the clinical significance of transketolase.
- 16. Which is the decarboxylation product of histidine.
- 17. What are the amino acids that take part in the synthesis of carnitine.
- 18. What is the function of lysosomes.
