

**KNRUHS - M.B.B.S. Degree Examination (July 2019)****BIOCHEMISTRY PAPER-I****Time:** 2½ Hours**Max. Marks:** 50

*Note: Answer all questions. Illustrate your answer with suitable diagrams.*

**I. ANSWER THE FOLLOWING QUESTIONS (2 x 10 = 20)**

1. How is ammonia formed in the body? Explain the urea cycle. Add a note on ammonia toxicity.
2. Explain how bile acids are synthesized. Mention the functions of bile acids and add a note on steatorrhea.

**II. WRITE SHORT NOTE ON (5 x 4 = 20)**

3. Biochemical functions of glycine.
4. Amphibolic role of citric acid cycle.
5. Competitive inhibition of enzymes and its clinical importance.
6. Anti-oxidants.
7. Hormonal regulation of blood glucose.

**III. WRITE BRIEFLY ON (5 x 2 = 10)**

8. Name the essential fatty acids.
9. Secondary structure of proteins.
10. Active transport system.
11. Sick cell hemoglobin.
12. Lactose intolerance.

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