

KNRUHS - M.B.B.S. Degree Examination (August 2018)**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. Explain the formation of ATP in the electron transport chain with a diagram. Mention ATP synthesizing sites and inhibitors of ETC.
[4+2+2+2=10]
2. Describe the degradation of glycogen in the body with regulation. Add a note on glycogen storage disorders. **[4+2+4=10]**

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

3. Hemoglobinopathies
4. Ketone bodies as fuel
5. Thiamine sources, functions and deficiency manifestation
6. Isoenzymes
7. PEM and Balanced diet

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

8. Two reactions of detoxification by Hydrolysis.
 9. Two functional roles of Vitamin B₁₂.
 10. Flip ratio.
 11. Brown fat.
 12. Functions of Hyaluronic acid.
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