

**QP Code: 203020**

**Reg. No.....**

**Second Year B.Sc. Medical Biochemistry Examinations October 2017**

**ENZYMOLGY**

**Time: 3 Hours**

**Total Marks: 80**

- **Answer all the questions**
- **Draw diagrams wherever necessary**

**Essay**

**(2x15=30)**

1. Define and classify the enzymes. Give one example for each class and mention the reaction catalysed. Add a note on factors influencing enzyme action.
2. Define isoenzymes. Explain in details about LDH and CK and their method of estimation. Plasma LDH and CK in various diseases with graph.

**Short Essay**

**(2x10=20)**

3. Isolation and purification of enzyme.
4. Regulation of enzyme action.

**Short Notes**

**(4x5=20)**

5. Therapeutic enzymes with examples.
6. Enzyme specificity with examples.
7. Competitive inhibition with graphs.
8. Multi-enzyme complex

**Answer Briefly**

**(5x2=10)**

9. Significance of  $K_m$ .
10. Suicidal inhibition.
11. Active site.
12. Metallo-enzyme.
13. Enzyme units.

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