QP CODE:217006 (NEW SCHEME)	Reg.No:
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Second Year B.Pharm Degree Supplementary Examinations December 2017 Applied Biochemistry & Molecular Biology

(2012 Scheme)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Describe the process of glycogenesis and glycogenolysis. Add a note on its regulation.
- 2. What are enzymes and classify them with example as per IUB recommendation. Discuss its mechanism of action.
- 3. Describe genetic engineering in detail.

Short notes (14x5=70)

- 4. Transport process across the cell membranes
- 5. Define bio energetic and discuss concept of free energy
- 6. Clinical applications of enzymes
- 7. Hormonal regulation of carbohydrate metabolism
- 8. Ketosis
- 9. Essential fatty acids
- 10. Metabolism of tryptophan and its metabolic disorders
- 11. Polymerase chain reaction
- 12. Mechanism of oxidative phosphorylation
- 13. Vitamins as co-enzymes and its biochemical significance
- 14. Hyperbilirubinemia
- 15. Synthesis and significance of creatine
- 16. Chromosomal disorders
- 17. DNA replication
