

Roll No .....

**PY-305 (CBCS)**

**B.Pharm., III Semester (Non-PCI Scheme)**

Examination, December 2017

**Choice Based Credit System (CBCS)**

**Biochemistry**

*Time : Three Hours*

*Maximum Marks : 75*

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

iii) Subparts of the question should be attempted in continuation.

1. Describe and define various methods of amino acid metabolism with special reference to urea acid cycle.
2. What are different metabolic pathways for carbohydrate metabolism? Describe energetics, pathway and significance of Glycolysis.
3. What is the role of electron transport chain in biological oxidation? How it may be inhibited?
4. What is the role of genetic codes? Describe organization and structure of DNA and RNA.
5. Describe the importance of enzyme regulation along with the therapeutic and diagnostic application of enzymes and isoenzymes.

6. What is the biological significance of ATP and cyclic AMP? Explain the concept of bio-energetics.
7. Discuss the formation and utilization of ketone bodies. What are various disorders of lipid metabolism?
8. Write short notes on any two of the following:
  - a) HMP-Shunt
  - b) Transcription
  - c) Co-enzymes

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