

PY-404**B.Pharmacy IV Semester**

Examination, June 2017

Pharmaceutical Chemistry-V**(Biochemistry)****Time : Three Hours****Maximum Marks : 70**

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Write a note on Enzyme Kinetics and mechanism of enzyme action.
2. Write a note on metals and vitamins as co-enzyme and their significance.
3. Give a detailed account on Citric acid cycle.
4. Discuss the reaction sequence, significance and regulation of Pentose Phosphate Pathway.
5. Describe the biosynthesis of saturated fatty acids.
6. Give an account on Oxidative Phosphorylation.

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7. Describe the Urea Cycle. Add a note on metabolic disorders associated with urea cycle.
8. Answer any four of the following:
 - a) Give nomenclature and classification of Enzyme.
 - b) Write a short note on conversion of polysaccharide to glucose-1-phosphate.
 - c) Write a short note on eicosanoids.
 - d) Draw the reaction sequence of biosynthesis of epinephrine.
 - e) What is Polymerase chain reaction?
 - f) Give an brief account on genetic engineering.

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