

[LE 803]

APRIL 2014

Sub. Code: 3803

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**FIRST YEAR****PAPER III – MEDICINAL BIOCHEMISTRY***Q.P. Code: 383803***Time: Three Hours****Maximum: 70 marks****Answer All questions****I. Elaborate on:****(2 x 20 = 40)**

1. a) Describe the reactions and significance of HMP shunt.
b) Explain about the β -oxidation of fatty acids.
2. Explain the semi conservative replication of a double stranded DNA molecule.
Add a note on its repair mechanism.

II. Write notes on:**(10 x 3 = 30)**

1. What are zymogens? Give examples.
2. Write a brief note on chemiosmotic theory.
3. State the central dogma of molecular biology.
4. What are isoenzymes? Give its applications.
5. What is renal threshold? Give the renal threshold value for glucose.
6. Briefly explain the structure of plasma membrane.
7. Purine catabolism.
8. Define hyperbilirubinemia. Name the tests for bilirubin in urine.
9. Discuss about the key regulator enzymes in glycolysis.
10. Explain about the biological significance of cAMP.
