

[KW 803]

MARCH 2010

Sub. Code: 3803

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION****(Regulations 2008-2009 )****(Candidates admitted from 2008-2009 onwards)****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) Explain TCA cycle in detail with its energetics.  
b) Discuss the  $\beta$  – oxidation of saturated fatty acids.
2. a) Write the biosynthesis of pyrimidine nucleotides.  
b) Enumerate the various liver function test and discuss the tests for serum bilirubin and urine bilirubin.

**II. Write notes on:****(6 x 5 = 30)**

1. Transport across cell membranes.
2. Co enzymes.
3. GTT.
4. Various components of electron transport chain.
5. Protein biosynthesis.
6. Jaundice.

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