

[LC 803]

APRIL 2013

Sub. Code: 3803

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**FIRST YEAR**

**PAPER III – MEDICINAL BIOCHEMISTRY**

*Q.P. Code: 383803*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer All questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write a detailed note on the Urea cycle with reactions.  
Mention its major metabolic disorders.
2. Explain the semiconservative replication of a double stranded DNA molecule.  
Add a note on its repair mechanism.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Explain the Van den Bergh reaction.
2. Discuss the biological significance of cyclic – adenosine monophosphate (c-AMP).
3. Write a note on Atherosclerosis.
4. Explain the mechanism of Transamination.
5. Explain the biochemical organisation of a cell.
6. Enumerate the IUB classification of enzymes with example.
7. Explain the Galactose tolerance test.
8. What are the various types of Porphyrrias.
9. Write a note on Urine analysis.
10. Write a note on Urea clearance.

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