

First Year Pharm D Degree Examinations - July 2015

Medicinal Biochemistry

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essay

(3x10=30)

1. Explain the phosphorylation steps in glycolysis. Mention the role of coenzymes and generation of ATP in these steps
2. Explain the various types of DNA mutation. Add a note on the DNA repair mechanisms.
3. Explain in detail the steps involved in biosynthesis of cholesterol from HMG CoA.

Short notes:

(8x5=40)

4. Porphyria and jaundice.
5. Differentiate competitive from non-competitive inhibition of enzymes with examples.
6. Principle involved in estimation of total cholesterol.
7. What are the different functions of a kidney. Explain creatinine clearance test.
8. Radio-immunoassay.
9. What is water balance and explain its regulation.
10. Liver function tests
11. Draw a neat labeled diagram of a typical cell and mention its biochemical composition.
