

**QP CODE: 3326**

**Reg. No:.....**

First Pharm D Degree Examinations - September 2011

**MEDICINAL BIOCHEMISTRY**

**Time: 3 Hours**

**Total Marks: 70**

- **Answer all questions**
- **Write equations, draw diagrams wherever necessary**

**Essay:**

**(2x10=20)**

1. Explain the biosynthesis of fatty acids. Add a note on beta oxidation.
2. Define and classify enzymes with suitable examples. Outline the various factors affecting enzyme activity.

**Write Short Notes:**

**(10x3=30)**

3. . Transamination with suitable examples
4. DNA replication
5. HMP shunt
6. Galactose tolerance test and its significance
7. Kidney function tests
8. Oxidative phosphorylation
9. Hormonal regulation of carbohydrate metabolism
10. Urea cycle
11. Mutation and repair mechanism
12. Glycolysis

**Answer briefly:**

**(10x2=20)**

13. Atherosclerosis
14. Gluconeogenesis
15. Jaundice
16. Hyperbilirubinemia
17. Glycogenesis
18. Hypokalemia
19. Electrolytes and their importance
20. ELISA test
21. Hypercholesterolemia
22. Porphyria

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