

QP CODE: 103326

Reg. No:.....

First Pharm D Degree Examinations - September 2012

MEDICINAL BIOCHEMISTRY

Time: 3 Hours

Total Marks: 70

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

Essay:

(2x10=20)

1. Explain in detail the biosynthesis of cholesterol.
2. Describe the different factors affecting enzyme activity. Add a note on mechanism of enzyme action.

Short Notes:

(10x3=30)

3. Enlist the different major complex bio-molecules of the cell. Mention the major functions of any one.
4. Define and classify carbohydrates with suitable examples.
5. Mention the importance of amphipathic lipids.
6. Mention the functions of nucleotides.
7. ATP as energy currency- Elaborate.
8. What are electrolytes and mention their biological importance.
9. Mention the different functions of kidney.
10. Galactose tolerance test.
11. Metabolic disorders of amino acids.
12. Applications of RIA.

Answer briefly:

(10x2=20)

13. Site an example of heptose and its biochemical importance.
14. Sugars of nucleotides.
15. Holoenzyme.
16. Hyperbilirubinemia.
17. Mention the structure of any two ketone bodies.
18. Mention any two characteristic features of dehydration.
19. What is the diagnostic importance of creatinine clearance.
20. Mention the different types of RNA. What is transcription?
21. What is Van Den Bergh reaction.
22. Expand the terms NADP, cGMP, ATP, FAD.
