

FIRST PROFESSIONAL B.S.M.S DEGREE EXAMINATIONS, FEBRUARY 2014

UYIR VEDHIYAL (BIO-CHEMISTRY)

- **Answer all the questions**
- **Draw diagrams wherever necessary**

Time : 3 Hrs

Max.Mark : 100

Essays :

(2x10=20)

1. Explain the location and reactions of HMP shunt with the help of a suitable diagram.
2. Discuss the oxidation of fatty acid in detail.

Short notes :

(10x5=50)

3. Name the factors affecting enzyme action and explain.
4. Mention the bio-chemical functions of vitamin D.
5. Digestion of carbohydrates.
6. Classify immunoglobulins and mention its function.
7. porphyrias
8. Draw and explain electron transport chain.
9. Urea cycle.
10. Metabolism of sodium.
11. Functions of thyroid hormones.
12. Creatinine clearance test.

Answer briefly :

(10x3=30)

13. Name the abnormalities in blood clotting.
14. Types of haemoglobin.
15. ATP – The most high energy compound. Why.
16. Define glycolysis.
17. Name the bad and good cholesterol.
18. Phenylketonuria.
19. Manifestations of hyperkalemia.
20. Name the laboratory tests to diagnose the HIV infection.
21. Define detoxification.
22. Name the components of bioinformatics.
