

FIRST PROFESSIONAL BSMS DEGREE EXAMINATIONS, SEPTEMBER 2015

UYIR VEDHIYAL (BIO-CHEMISTRY) – 2013 SCHEME

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

Time : 3 Hrs

Max.Mark : 100

Essays :

(2x10=20)

1. Explain the reactions in hexose monophosphate shunt pathway in detail.
2. Discuss the biochemical functions and abnormalities of iron.

Short notes :

(10x5=50)

3. Digestion and absorption of carbohydrates.
4. Basal metabolic rate
5. Replication of deoxyribonucleic acid (DNA).
6. Reactions in the synthesis of urea.
7. Synthesis of heme.
8. Biologically important compounds derived from cholesterol.
9. Types and functions of immunoglobulins.
10. Electron transport chain.
11. Functions and deficiency of vitamin B₁₂
12. Liver function tests.

Answer briefly :

(10x3=30)

13. Types of mucopolysaccharides.
14. Names and functions of essential fatty acids.
15. Structural classification of amino acids.
16. Factors affecting enzyme action.
17. Tumor markers.
18. Gout
19. Complement system of our body.
20. Regulation of electrolyte balance.
21. Balanced diet.
22. Mechanism of detoxification.
