

Q.P. Code. 113005

Reg. No:.....

**First Professional B.S.M.S Degree Supplementary Examinations
March 2022**

**Uyir Vedhiyal (Bio-Chemistry)
(2013 Scheme)**

Time: 3 Hrs

Max. Mark : 100

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers* • *Draw diagrams wherever necessary*

Essays:

(2x10=20)

1. Discuss the degradation of purine nucleotides in detail.
2. Discuss HMT shunt pathway in detail.

Short notes:

(10x5=50)

3. Replication fork and DNA synthesis.
4. Protein energy malnutrition.
5. Polymerase chain reaction.
6. Factors affecting enzyme activity.
7. Urea cycle.
8. Types and functions of plasma proteins.
9. Polysaccharides – classification and functions.
10. Structure of proteins.
11. Oxidation and substrate level phosphorylation.
12. Thyroid function tests.

Answer briefly:

(10x3=30)

13. Role of bile salt in lipid digestion.
14. Functions of niacin.
15. Types of RNA.
16. Denaturation of protein.
17. Deficiency of selenium.
18. Deficiency of growth hormone.
19. Steroids.
20. Active site.
21. Complement system.
22. Biomedical applications of prostaglandins.
