QP Code: 313020 Reg. No......

Third Year B.Sc. Medical Biochemistry Supplementary Examinations July 2023 Metabolism III

(2016 Scheme)

Time: 3 Hours Total Marks: 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 table/diagrams/flow charts wherever necessary

Essay (2x15=30)

- 1. Explain the process of translation in Eukaryotes and state the salient differences in Prokaryotes.
- 2. Discuss the de novo synthesis of purines. Add a note on its regulation.

Short Essay (2x10=20)

- 3. Mutation.
- 4. Gout.

Short Answers (6x5=30)

- 5. Post translational modifications.
- 6. Mitochondrial DNA.
- 7. tRNA.
- 8. Gene Therapy.
- 9. Okazaki fragments.
- 10. RFLP (Restriction Fragment Length Polymorphism)

Comment on (10x2=20)

- 11. Enhancers and silencers.
- 12. Inhibitors of replication.
- 13. Lesch-Nyhan syndrome.
- 14. Restriction endonuclease.
- 15. Operon concept in gene expression.
- 16. Chaperones.
- 17. Reverse transcriptase.
- 18. Mismatch repair.
- 19. FISH (Fluorescent in Situ Hybridization)
- 20. Wobble hypothesis
