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

Third Year B.Sc. Medical Biochemistry Supplementary Examinations October 2022 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 de novo synthesis of purine nucleotides and how it is degraded in liver
- 2. Illustrate the process of DNA replication and its regulation. Explain the effect of inhibitors

Short Essay (2x10=20)

- 3. Techniques in gene therapy with examples of successful applications
- 4. DNA repair mechanisms.

Short Answers (6x5=30)

- 5. Post translational modifications
- 6. Advantages and disadvantages of animal cloning
- 7. Molecular scissors
- 8. Histones
- 9. Blot techniques.
- 10. Phases of cell cycle

Comment on (10x2=20)

- 11. Monosodium urate crystals
- 12. Point mutation
- 13. Xanthine oxidase
- 14.RTPCR
- 15. Apoptosis
- 16. Cosmid
- 17. Kornberg's enzyme
- 18. Ame's test to detect mutagenesis
- 19. Nick translation
- 20. Snurps
