

QP Code: 313020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Regular/Supplementary
Examinations April 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. Describe the technique involved and applications of recombinant DNA technology
2. Illustrate the process of translation and its regulation. Explain the effect of inhibitors.

Short Essay

(2x10=20)

3. Salvage path way of purine synthesis
4. Southern blot technique and applications

Short Answers

(6x5=30)

5. Post transcriptional modifications.
6. Mammalian DNA polymerase
7. DNA repair mechanisms.
8. Nucleosome
9. Lesch - Nyhan syndrome
10. Nucleotide excision repair

Comment on

(10x2=20)

11. Site - directed mutagenesis
12. Lac operon.
13. Expression vectors
14. Orotic aciduria
15. Frameshift mutation
16. Telomerase
17. DNA tandem repeats
18. Degeneracy of codons
19. Reverse transcriptase
20. p53 Protein
