

QP Code: 313020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Supplementary Examinations
August 2024
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. Give a detailed account of the transcription process and its regulation. Name inhibitors of transcription.
2. Explain the catabolism of purine nucleotides and their abnormalities due to excessive catabolism

Short Essay

(2x10=20)

3. Enumerate the steps of recombinant DNA technology and its applications
4. Describe the organization of chromatin in nucleus

Short Answers

(6x5=30)

5. Applications of Polymerase Chain Reaction (PCR)
6. Protein targeting
7. Summarize the procedure of Gene therapy
8. Mechanisms of DNA repair
9. Salient features of Genetic code
10. Post translational modifications

Comment on

(10x2=20)

11. Reverse transcriptase
12. Aminoacyl tRNA synthetase
13. Transgenic animals
14. Point mutation
15. Okazaki fragments
16. Unusual bases in tRNA
17. DNA Probe
18. Lac operon.
19. Ribozymes
20. Topoisomerases
