

QP Code: 303020

Reg. No.....

Third Year B.Sc. Medical Biochemistry Examinations October 2017

Metabolism III

Time: 3 Hours

Total Marks: 80

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essay

(2x15=30)

1. Discuss the various DNA repair defects. Add a note on the different DNA repair mechanisms. (8+7)
2. Describe in detail the steps of denovo synthesis of pyrimidines, enzymes, regulation & the associated inborn errors. (6+3+3+3)

Short Essay

(2x10=20)

3. Structure of DNA.
4. Post transcriptional modifications.

Short Answers

(4x5=20)

5. Salvage pathway of purines.
6. Gene switching
7. Southern blotting.
8. Mutations

Comment on

(5x2=10)

9. Transgenics
10. Nucleosome.
11. Okazaki fragment.
12. Sickle cell anaemia.
13. Reverse transcriptase
