

QP Code: 303020

Reg. No.....

**Third Year B.Sc. Medical Biochemistry Supplementary Examinations
April 2018**

Metabolism III

Time: 3 Hours

Total Marks: 80

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

Essay

(2x15=30)

1. Discuss in detail the steps of recombinant DNA technology. Add a note on its applications. (10+5)
2. Discuss in detail the steps, enzymes of DNA replication in prokaryotes. Add a note on the inhibitors of DNA replication. (10+5)

Short Essay

(2x10=20)

3. Protein targeting.
4. DNA repair mechanisms.

Short Answers

(4x5=20)

5. Genetic code
6. Post translational modifications.
7. Lac operon concept.
8. Mismatch repair

Comment on

(5x2=10)

9. R.F.L.P.
10. Klenow fragment.
11. Telomerase.
12. Lesch nyhan syndrome.
13. Vectors
