

M. SC. (MEDICAL BIOCHEMISTRY) : SUMMER - 2018

SUBJECT : PAPER – IV

MOLECULAR BIOLOGY AND RECENT ADVANCES

Day: Friday
Date: 08/06/2018

S-2018-3474

Time: 2.00 P.M. TO 5.00 P.M
Max. Marks: 100

N. B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 4) Draw neat diagram **WHEREVER** necessary.
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Q.1 Describe the process of protein biosynthesis Add a note on its inhibitors. **[25]**

Q.2 What are free radicals and reactive oxygen species? Describe the damage produced by free radicals. Write a note on antioxidants. **[25]**

Q.3 Discuss in detail replication and repair mechanism of Deoxyribonucleic Acid (DNA). **[25]**

Q.4 Write short notes on **ANY THREE** of the following: **[25]**

- a) Gene therapy
- b) Mutation
- c) Genomics and Proteomics
- d) Lac operon model

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