

M. Sc. (Medical Biochemistry) : SUMMER - 2019
SUBJECT: PAPER-IV: MOLECULAR BIOLOGY, BIOTECHNOLOGY, RECENT
ADVANCES IN CLINICAL BIOCHEMISTRY

Day: Saturday
Date: 08/06/2019

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

S-2019-3888

N.B.:

- 1) **Q. No.1 and Q. No.2 are COMPULSORY.**
 - 2) Attempt **ANY SEVEN** questions from **Q. No.3** and **Q. No.10.**
 - 3) Figures to the right indicate **FULL** marks.
 - 4) Draw neat and labelled diagram **WHEREVER** necessary.
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| Q.1 | Discuss in detail the process of protein biosynthesis. Add a note on the inhibitors of protein biosynthesis. | (15) |
| Q.2 | Describe the steps of Recombinant DNA technology. Add a note on its applications. | (15) |
| Q.3 | Human Genome Project | (10) |
| Q.4 | Structure and Functions of Deoxyribonucleic acid (DNA) | (10) |
| Q.5 | Regulation of gene expression in prokaryotes | (10) |
| Q.6 | Polymerase chain reaction (PCR) | (10) |
| Q.7 | Oncogenes and Growth Factors | (10) |
| Q.8 | Antioxidants | (10) |
| Q.9 | Nitric oxide | (10) |
| Q.10 | Types of research studies | (10) |

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