

M. SC. (MEDICAL BIOCHEMISTRY) : WINTER - 2017
SUBJECT : PAPER – IV: MOLECULAR BIOLOGY & RECENT ADVANCES

Day : **Friday**
Date : **08/12/2017**

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

W-2017-3388

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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- Q.1** What is recombinant DNA technology? Discuss the various tools of it. Add a note on its clinical applications. **[25]**
- Q.2** Describe the process of gene regulation in prokaryotes. **[25]**
- Q.3** Explain the term 'Inborn errors of Metabolism'. Discuss the inborn errors of metabolism associated with aromatic amino acids. **[25]**
- Q.4** Write notes on **ANY THREE** of the following: **[25]**
- a) Oncogenes
 - b) Apoptosis
 - c) DNA replication
 - d) Enzymatic antioxidants

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