Total No. of Questions : 4]

SEAT No. : ____

P1430

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[5124]-31
M.Sc.
BIOCHEMISTRY
BCH - 370 : Molecular Biology
(2008 and 2010 Pattern) (Semester - III)

Time : 3 Hours] ***[Max. Marks : 80***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to right indicate full marks.***

Q1) Answer any four of the following: **[20]**

a) What are retrotransposons? Give their mechanism of transposition.

b) What is DNA methylation? Give its significance.

c) Explain pyrimidine dimer formation and its repair.

d) Write note on role of shine and Dalgarno sequence and its significance.

Q2) Attempt any two of following: **[20]**

a) Explain in detail base exicsion repair mechanism.

b) Write note on mitochondrial protein transport.

c) Write note on inhibitors of transcription process.

Q3) Answer any four of following: **[20]**

a) Explain mRNA capping. Give its role and significance.

b) Explain clover leaf structure of t-RNA.

c) DNA replication is semiconservative. Explain.

d) Write note on types of RNA polymerases and their role in brief.

P.T.O.

Q4) Write short notes on any four of following: **[20]**

a) Need and Mechanism of splicing.

b) SOS response.

c) Protein targetting.

d) Okazaki fragments.

e) Role of RecA, RuvB, RuvA, RuvC in recombination.

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