Total No. of Questions : 4]

P1435

SEAT No. :

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M.Sc.

BIOCHEMISTRY

BCH:472: Genetic Engineering

(2010 Pattern) (Semester - IV)

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

Instructions to the candidates:
1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*

Q1) Answer any four of following: **[20]**
a) Explain role of ligases and alkaline phasphatase.
b) Write note on bacteriophage as vector in genetic engineering.
c) Write note on immunological methods for selection of recombinants.
d) Explain Narthern blotting.
e) Explain different methods of transfection.

Q2) Answer any four: **[20]**
a) What is meant by transgenic animals? Explain with example.
b) Give application of microarray.
c) Give the methods in protein engineering.
d) What is cDNA library? Give method for its construction.

Q3) Answer any four of following: **[20]**
a) Explain replica plating and its application.
b) Explain M13 bacteriophage vector.
c) Give applications of PCR.
d) What is chromasome walking.

Q4) Write note on any four of following: **[20]**
a) Epigenetics.
b) Cosmids.
c) Microarray
d) Blue white screening

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