

[Time: 3 Hours.]

[Marks: 100]

Please check whether you have got the right question paper.

- N.B: 1. All questions are compulsory and carry equal marks.
2. Figures to the right indicate full marks.
3. Draw neat and labelled diagrams wherever necessary.
4. Answer the questions in proper order.

- Q. 1 Describe Any Two of the following: (20)
a) Regulatory protein domain
b) Excision repair of DNA
c) Huntington disease
- Q. 2 Describe any two of the following: (20)
a) cDNA library.
b) Plasmid vector
c) Polymerase chain reaction.
- Q. 3 Give an account on any two of the following: (20)
a) Non-disjunction of autosomes
b) Cystic fibrosis
c) Breast cancer
- Q. 4 Describe any two of the following: (20)
a) Biological databases
b) UniProt
c) FASTA
- Q. 5 Write short notes on: (any four) (20)
a) Nonsense mutations
b) DNA sequencing by chain termination method
c) Amniocentesis
d) PubMed
e) Hydroxylating agent mediated mutation
f) PROSITE