TIME-3HOUR
MARKS-70

NOTE:SECTION A IS COMPULSORY.ATTEMPT ANY FOUR QUESTIONS FROM SECTION B.

SECTION A [5*2=10 MARKS]

a) Folding Problem

b) Motifs

c) UniGene

d) Positional Cloning

e) Identity and Similarity

SECTION B [4*15=60 MARKS]

2. a) What is broinformatics? Explain the importance of bioinformatics?

b) What are the application areas of different analysts methods?

3. a) Explain the structuze of SWISS-PROT entries.

b) Why create secondary databases?

4. a) Explain GenBank.

b) What is the importance of specialized genomic resources?

5. What is GenBank? Explain the structure of GenBank entries

6. a) Explain Central Dogma of Molecular biology with neat diagram.

b) Describe features of DNA sequence analysis

7. a) Write about BL4ST (Basic Local Alignment Search Tool)

b) Explain the Needleman and Wunsch algonthm for global alignment

8. a) Define Mulnple sequence alignment? What is the goal of Multiple sequence alignment?

b) Explain simultaneous methods and progressive methods for multiple alignments?