

Your Roll. No.....

P.G. Diploma in Bioinformatics
Annual Examination – 2010
Paper No. ; PBID – 101
Introduction to Bioinformatics

Time: 2 ½ Hrs

Maximum Marks: 70

SECTION – A

Attempt ALL questions

1x10=10

- Q. I. a. The Human Genome Project started in _____
b. _____ has invented a novel gene trapping technology to identify genes contained within the human genome.
c. Expand BLAST _____
d. _____ algorithm for sequence comparison is published by Pearson and Lupman.
e. BIOML stands for _____
f. Two types of goals of KDD systems are _____ and _____
g. CuraGen, for one, uses an assembly-line process to generate information about _____ tissues.
h. Recombinant DNA is _____
i. PROSITE is _____
j. TELNET allows a user to _____ onto a computer.

SECTION – B

Attempt any SIX questions.

5x6=30

- Q. II. 1. What is Bioinformatics? What are the three divisions of Bioinformatics?
2. Write a short note on Human Genome Project.
3. What are the skills required by Bioinformatics professional?
4. Describe the various applications of Bioinformatics.
5. What is BioNavigator? Explain.
6. What is KDD? Explain its applications.
7. Differentiate between Bio-Informaticist and a Bio-Informatician.
8. Explain the following: FTP, XML, and WWW.

SECTION – C

3x10=30

Attempt any THREE questions.

- Q. III. 1. Discuss the role of Bioinformatics with reference to pharmaceutical industry.
2. Explain the various challenges faced by Bioinformatics industry.
 3. Write notes on the following: GeneBank, EMBL, and PDB.
 4. What are databases? Differentiate between redundant and non-redundant databases.
 5. Discuss various Bioinformatics-employment opportunities.