2022

PHYSIOLOGY

[HONOURS]

(B.Sc. Fourth Semester End Examination-2022)

PAPER-SEC2

Full Marks: 20   *Time: 02 Hrs*

The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary

[Fundamentals of Computers and Bioinformatics]

1. **Answer any FIVE questions of the following:**   5x2= 10

a) What is RAM and ROM.

b) What do you mean by computer software? Give few example.

c) What do you mean by biological data base?

d) What is accesssion number and GI number?

e) What is 'BLAST'?

f) What is pubmed? How is it helpful to us?

g) What do you mean by Pairwise & multiple sequence allignment?.

h) Mention the importance of bioinformatics?.

2. **Answer any TWO questions of the following:**   2x5 = 10

a) What are the different components of a computer? Briefly discuss about these components.   2+3

b) What is 'Omics'? Write down the application of molecular phylogenetics. What are phylogram and cladogram?   1+3+1

c) Mention the objectives of data base construction. Differentiate between internet and intranet. Write notes on – Human Genome Project.   2+2+1

d) What do you mean by domain analysis and motif analysis. What are local, global and semiglobal sequence alignment?   2+3