BBCS-185

ASSIGNMENT BOOKLET

Bachelor's Degree Programme B.Sc. Hons in Biochemistry (BSCBCH)

BIOINFORMATICS

Valid from January, 2023 to December, 2023



School of Sciences Indira Gandhi National Open University Maidan Garhi New Delhi-110068. Dear Student,

Please read the section on assignments in the Programme Guide for Core Courses that we sent you after your enrolment. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation, which would consist of one tutor-marked assignment for this course. The total marks of all the parts are 100, of which 35% are needed to pass it.

Instructions for Formatting Your Assignments

Before attempting the assignment please read the following instructions carefully:

1) On top of the first page of your answer sheet, please write the details exactly in the following format:

	ROLL NO.:
	NAME:
	ADDRESS:
COURSE CODE:	
COURSE TITLE:	
ASSIGNMENT NO.:	
STUDY CENTRE:	DATE:

PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

- 2) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) The assignment answer sheets are to be submitted to your Study Centre as per the schedule made by the study centre. Answer sheets received after the due date shall not be accepted.

We strongly suggest that you retain a copy of your answer sheets.

- 6) This assignment is **valid from January 2023 to December, 2023** and submit it as per the instructions given in the Programme Guide.
- 7) You cannot fill the exam form for this course till you have submitted this assignment.

We wish you good luck.

ASSIGNMENT BIOINFORMATICS

Course Code: BBCS-185 Assignment Code: BBCS-185/TMA/2023 Maximum Marks: 100

Answer all the questions given below.

1.	. Define the following terms: 2.5 x 4		2.5 x 4 =	= 10 M	
	a) Al	ignment b) BLAST c) E-value d) GenBank			
2.	Write	a note on basics of computer operations.		10 M	
3.	Expla	in the scope of Bioinformatics.		10 M	
4.	b. Describe the following: $5 \ge 2 =$			10 M	
	i.	Protein databases			
	ii.	DNA data bases			
5.	Differ	entiate between the following:	5 x 2=	10 M	
	i.	MS word and Excel			
	ii.	Web browsers and Search Engines			
6.	Access envelope protein sequence of your interest from NCBI database in Genbank fromat				
	write	the title, ID, Organism name.		10 M	
7.	7. Describe how to download sequence NM_001297740 in GenBank and FASTA format. 10 M				
8.	What	is MSA? Explain its role in phylogenetic analysis?		10 M	
9.	Retrieve any three or more protein sequences from protein database, copy the sequences in				
	FASTA file format, align the sequence each other and report the pair wise score using Clustal				
	Omeg	a.		10 M	
10	10. Write a note on NCBI.			10 M	