

BBCS-185

ASSIGNMENT BOOKLET

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

BIOINFORMATICS

Valid from January, 2022 to December, 2022



**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 2022 to December, 2022** 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/2022
Maximum Marks: 100**

Answer all the questions given below.

1. Define the following terms: 2.5 x 4 = 10 M
 - i. Bioinformatics
 - ii. Processing
 - iii. Storage
 - iv. Output
2. Enlist the important features of Microsoft office. 10 M
3. Explain the scope and importance of bioinformatics with reference to COVID-19. 10 M
4. Describe the following: 5 x 2 = 10 M
 - i. Steps involved in creating and using a PowerPoint presentation
 - ii. Steps involved in creating and using a Excel sheet
5. Differentiate between the following: 5 x 2= 10 M
 - i. LAN and WAN
 - ii. Web browsers and Search Engines
6. Write a detailed note on NCBI and its applications. 10 M
7. Give a detailed account on small molecule databases. 10 M
8. Describe the steps involved in retrieving gene sequence from NCBI. 10 M
9. Explain the terms Similarity, Identity and Homology with suitable examples. 10 M
10. Write a note on various file formats used in bioinformatics. 10 M