BBCCT-101

ASSIGNMENT BOOKLET

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

MOLECULES OF LIFE

Valid from 1st July, 2020 to 30th June, 2021



School of Sciences
Indira Gandhi National Open University
Maidan Garhi
New Delhi-110068
(2020-2021)

Dear Student.

1)

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 assignment is in this booklet, and it consists of three parts, Part A, B and C. 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:	
ASS	SIGNMENT NO.	:		
STU	JDY 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) Complete each of Part A, Part B and Part C of this assignment separately, and submit them together.
- 6) 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.
- This assignment is valid from 1st July, 2020 to 30th June, 2021. If you have failed in this assignment or 7) fail to submit it by June, 2021, then you need to get the assignment for the year 2021-22, and submit it as per the instructions given in the Programme Guide.
- 8) You cannot fill the exam form for this course till you have submitted this assignment.

We wish you good luck.

ASSIGNMENT MOLECULES OF LIFE

Course Code: BBCCT-101
Assignment Code: BBCCT-101/TMA/2020-2021

Maximum Marks: 100

$\frac{\text{Answer all the questions given below. All Questions carry equal marks.}}{\text{PART-A}}$

1.	A) What do you understand by the term 'Interdisciplinary'? Explain about interdiscipnature of Biochemistry.				
	B) Write a short note on Mutarotation	(5+5)	10		
2.	A) With the help of a well labeled diagram briefly describe the various not interactions in aqueous system systems.				
	B) Differentiate between secondary and tertiary structure of a protein.	(5+5)	10		
3.	A) Write a brief note on the following: a) Zwitterion b) Titration curve of B) With the help of a labelled diagram explain the formation peptide bond				
4.	A) What is glycosidic bond? Explain different types of glycosidic bonds we example? B) Draw the structures of Milk and Table sugars,	ith suit (5+5)			
	example: B) Draw the structures of Wilk and Table sugars,	(3+3)	10		
5.	A) Compare and contrast between storage and structural polysaccharides v diagrams and examples.	vith sui	table		
	B) Write detailed note on Blood group antigens	(5+5)	10		
	<u>PART-B</u>				
6.	A) Explain the micelle formation and its significance in saponification.B) Write note biological membranes.	(5+5)	10		
7.	A) Differentiate between auto and paracrine signaling?B) Explain paracrine signalling with the help of eicosanoids.	(5+5)	10		
8.	A) Illustrate the role of vitamin-A in vision cycle with a neat diagram B) Justify the role of vitamins as antioxidant with suitable examples.	(5+5)	10		
9.	A) Describe the Griffth's experiment of bacterial transformation B) Explain the phenomenon of denaturation and renaturation with the help diagram.	of suit (5+5)			
10.	A) Draw the structure of ATP and explain why it is known as energy rich B) Give a detailed note on t-RNA.	compou (5+5)			