

BBCCT-115

ASSIGNMENT BOOKLET

Bachelor (Honours) Degree in BIOCHEMISTRY (BSCBCH)

HUMAN PHYSIOLOGY

Valid from 1st January, 2024 to 31st December, 2024

Last date for the assignment submission is on or before 31th December, 2024.



**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 of B.Sc. (Hons.) Biochemistry (BSCBCH) that we sent you after your enrolment. A weightage of 30 percent, as you are aware, has been earmarked for continuous evaluation, **which would consist of one tutor-marked assignment** for this course. The assignment in this booklet consists of two parts- I and II. It covers all blocks of the course (BBCCT-115). The total marks of this assignment are 100, of which 35% are needed to pass it.

SPECIFIC INSTRUCTIONS FOR TUTOR MARKED ASSIGNMENTS (TMA)

- 1) Write your Enrolment Number, Name, Full Address, Signature and Date on the top right hand corner of the first page of your response sheet.
- 2) Write the Programme Title, Course Code, Course Title, Assignment Code and Name of your Study Centre on the left hand corner of the first page of your response sheet.

Course Code and Assignment Code may be reproduced from the assignment.

The top of the first page of your response sheet should look like this:

ENROLMENT NO.:.....

| | |
|--------------------------------|---|
| PROGRAMME TITLE : | NAME: |
| COURSE CODE : | ADDRESS: |
| COURSE TITLE : | |
| ASSIGNMENT CODE : | SIGNATURE: |
| STUDY CENTRE : | DATE: |

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

- 3) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- 4) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 5) Your answers should be precise.
- 6) Solve questions of the assignment, and submit the complete assignment answer sheets within the due date.
- 7) The assignment answer sheets are to be submitted to your Study Centre within the due date. Answer sheets received after the due date shall not be accepted.
- 8) We strongly suggest that you retain a copy of your answer sheets.
- 9) **This assignment is valid from 1st January, 2024 to 31th December, 2024.** If you have failed in this assignment or fail to submit it by December, 2024, then you need to get the assignment for the year 2025, and submit it as per the instructions given in the Programme Guide.
- 10) You cannot fill the exam form for this course till you have submitted this assignment.

We wish you good luck!

Assignment

Human Physiology

Course Code: **BBCCT-115**
Assignment code: **BBCCT-115/TMA/2024**
Maximum marks: **100**

Note: Attempt all questions. The marks for each question are indicated against it.

PART- I

Maximum marks: 50

1. (a) Define the following terms: (1x5=5)
 - (i) Blood coagulation
 - (ii) Cardiac cycle
 - (iii) Micturition
 - (iv) Hypertension
 - (v) Reabsorption

(b) Discuss the homeostasis control system. (5)
2. Draw the labelled diagram of the following: (2.5x4=10)
 - (a) Internal structure of Heart
 - (b) Nephron
 - (c) pancreas
 - (d) Sarcomere
3. (a) Discuss briefly the structure and function of arteries with the suitable diagram. (5)

(b) Explain how oxygen (O₂) transport into the blood. (5)
3. Describe the role of antidiuretic hormones in regulation of urine volume and sodium balance. (10)
5. Write short notes on the following: (5+5)
 - (a) Kidney function tests
 - (b) Pulmonary edema.

PART-II

Maximum marks: 50

6. (a) Discuss the structure and function of small intestine with labelled diagram. (5)
- (b) Enlist the causes and symptoms of the following diseases: (2.5x2=5)
- (i) Jaundice
- (ii) Alzheimer
7. (a) Discuss the blood flow into the liver. (5)
- (b) Explain the spermatogenesis. (5)
8. Differentiate between: (5+5=10)
- (a) Menstrual phase and Luteal phase
- (b) Central nervous system and peripheral nervous system
9. (a) Explain the structure of bone. (5)
- (b) Discuss the molecular organisation of smooth muscle fiber. (5)
10. Write short notes on the following: (5+5=10)
- (a) Memory
- (b) Sleeping cycle