

ASSIGNMENT BOOKLET

**Bachelor (Hons.) Degree in Biochemistry (BSCBCH) / B.Sc. (Major)
Biochemistry (BSCFBC)**

HUMAN PHYSIOLOGY

Valid from 1st January, 2026 to 31st December, 2026

Last date for the assignment submission is on or before 31th December 2026.



**School of Sciences
Indira Gandhi National Open University
Maidan Garhi, New Delhi-110068**

Dear Learners,

Please read the section on assignments in the Programme Guide of B.Sc. (Hons.) Biochemistry (BSCBCH) and B.Sc. (Major) Biochemistry (BSCFBC) 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 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, 2026 to 31th December, 2026.** If you have failed in this assignment or fail to submit it by December, 2027, then you need to get the assignment for the year 2026, 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/2026**
Maximum marks: **100**

Note: Attempt all questions.

1. (a) Describe the Body-fluid compartments and their roles: (5)
(b) Explain the physiological roles of Vitamin K in blood coagulation (5)
2. (a) Describe the cardiac cycle with a suitable diagram. (5)
(b) Explain the microcirculation. (5)
3. (a) Explain transport of carbon dioxide in blood. (5)
(b) Write a brief note on pulmonary edema (5)
4. (a) Discuss the urine formation in human body: (5)
(b) Explain the role of anti-diuretic hormone (ADH) in water regulation. (5)
5. Describe the structure and functions of the stomach with a labeled diagram. (10)
6. (a) Write a brief account note on hepatopathies. (5)
(b) Describe the fertilization process with a suitable diagram. (5)
8. a) Explain bone cells and their functions. (5)
(b) Describe the molecular organization of skeletal muscle fiber. (5)
9. Differentiate between: (5+5)
(a) Central Nervous System and Peripheral Nervous System
(b) Testis and Ovary
10. Write a brief note on the following: (5+5=10)
(a) Sleep cycle
(b) Neurotransmitters