

BBCCT-111: Intermediary Metabolism-II

Course Code	BBCCT-111
Course Title / Subject	Intermediary Metabolism-II
Programme	Undergraduate Honours / CBCS
Medium	English Medium
Marks	100
Assignment Type	Tutor Marked Assignment (TMA)

This reference solution is prepared in clear, professional academic language for direct handwritten assignment practice.

Official IGNOU Assignment / Syllabus Question Paper

The question paper below is rendered from the official IGNOU assignment syllabus PDF.

Assignment

MEMBRANE BIOLOGY AND BIOENERGETICS

Course Code: **BBCCT-111**

Maximum marks: **100**

Assignment code: **BBCCT-111/TMA/2026**

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

For any question worth 2 marks, the word limit is 50 words, for 5 marks question it is 100 words; and for 10 marks it is 250-300 words.

PART-(A)

Maximum marks: 50

1. (a) Describe the general composition of a biomembrane. [5]
(b) Discuss the methods used for studying proteins. [5]
2. Explain the following: [10]
(a) v-SNARE and t-SNARE (b) Flip-flop
3. Differentiate between the following: [5+5]
(a) Simple and facilitated diffusion.
(b) Phagocytosis and pinocytosis
4. (a) Discuss the working of sodium–potassium pump. [5+5]
(b) Explain the working of a mechano-gated channel.
5. Write short notes on the following: [5+5]
(a) Group Translocation (b) Transport Vesicle

PART- (B)

Maximum marks: 50

1. (a) Explain first and second laws of thermodynamics. [5+5]
(b) Define Gibbs energy and outline its significance.
2. (a) What are endergonic and exergonic reactions? [5+5]
(b) Mention the processes that produce ATP.
3. Explain the organisation and function of electron transport chain. [10]
4. Describe the photosynthetic apparatus along with various pigments. [10]
5. Explain the structure and function of CF₀-CF₁ ATP synthase complex. [10]

Solved Answers

Answer 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. Study Centre on the left hand corner of the first page of your response sheet. The top of the first page of your response sheet should look like this: ENROLMENT NO.: PROGRAMME TITLE :

..... **NAME:**
COURSE TITLE : **STUDY CENTRE :**
..... **DATE:** (ignoucollage.in)

About 500 words

The study and understanding of **write your enrolment number, name, full address, signature and date on the** represents a core analytical dimension within the subject. In academic inquiry, examining this topic involves analyzing its underlying principles, structural features, and functional mechanisms. A comprehensive perspective requires looking beyond surface definitions to understand how established theories and empirical observations interact to explain observable outcomes. By establishing clear definitions and contextual parameters, scholars and students can interpret relevant data accurately.

A systematic investigation into **write your enrolment number, name, full address, signature and date on the** reveals several vital characteristics and operational methods. First, it functions according to structured rules and standardized criteria that ensure consistency across varying scenarios. Second, it highlights the interdependence between foundational concepts and real-world execution, ensuring that theoretical frameworks directly support practical diagnosis and assessment. Third, careful classification of its components enables researchers to organize information logically, identify key variables, and apply systematic problem-solving steps.

Furthermore, evaluating the procedural and developmental progression of **write your enrolment number, name, full address, signature and date on the** provides deeper insight into its overall significance. When applied to specific cases or experimental situations, researchers observe a distinct sequence of causes and effects. Whether analyzing social structures, historical shifts, economic behavior, literary expression, or scientific phenomena, maintaining methodological precision at every phase is critical. Rigorous analysis prevents misinterpretation and ensures that comparative evaluations yield valid, repeatable conclusions.

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Answer 2: Read the assignments carefully and follow the specific instructions, if any, given on the assignment itself about the subject matter or its presentation. (ignoucollage.in)

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Answer 3: Go through the Units on which the assignments are based (Part A includes Block-1 and 2 and Part B Block 3 and 4). Make some points regarding the question and then rearrange those points in a logical order and draw up a rough outline of your answer. While answering an essay type question, give adequate attention to introduction and conclusion. The introduction must provide a brief interpretation of the question and how you propose to develop it. The conclusion must summarise your response to the question. Make sure that the answer is logical and coherent, and has clear connections between sentences and paragraphs. The answer should be relevant to the (ignoucollage.in)

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Answer 4: Use only foolscap size paper for your response and tie all the pages carefully. Avoid using very thin paper. Allow a 4 cm margin on the left and at least 4 lines in between each answer. This would facilitate the evaluator to write useful comments in the margin at appropriate places. (ignoucollage.in)

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Answer 5: Write the responses in your own handwriting. Do not print or type the answers. Do not copy your answers from the Units/Blocks sent to you by the University. It is advised to write your answers in your own words as it will help in grasping the study material. (ignoucollage.in)

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Answer 6: Do not copy from the response sheets of other students. If copying is noticed, the assignment will be rejected. (ignoucollage.in)

About 500 words

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Answer 7: Write each assignment separately. All the assignments should not be written in continuity. (ignoucollage.in)

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Answer 8: Write the question number with each answer. (ignoucollage.in)

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Answer 9: The completed assignment should be submitted to the Coordinator of the Study Centre allotted to you. TMAs submitted at any other place will not be evaluated. (ignoucollage.in)

About 500 words

The study and understanding of **the completed assignment should be submitted to the coordinator of the study** represents a core analytical dimension within the subject. In academic inquiry, examining this topic involves analyzing its underlying principles, structural features, and functional mechanisms. A comprehensive perspective requires looking beyond surface definitions to understand how established theories and empirical observations interact to explain observable outcomes. By establishing clear definitions and contextual parameters, scholars and students can interpret relevant data accurately.

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Answer 10: After submitting the TMA, get the acknowledgement from the Coordinator on the prescribed assignment remittance-cum-acknowledgement card. (ignoucollage.in)

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