

COURSE / ASSIGNMENT DETAILS

BBCCT-127: BBCCT-127

Course Code	BBCCT-127
Course Title / Subject	BBCCT-127
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

Immunology Core Course in Biochemistry

Course Code: BBCCT-127
Assignment Code: BBCCT-127/TMA/2026
Maximum Marks: 100

Note: Attempt all questions. The marks for each question are indicated against it. Write all answers in your own words; do not copy from the course material.

PART-(A) (50)

1. Give an overview of cells of immune system. (10)
2. a) How pathogen is internalised? (5+5=10)
b) Describe the traits of Immunogen
3. Explain the classical pathway of complement activation. (10)
4. Differentiate between: (5+5=10)
a) Idiotype and Allotype Determinants
b) Immunoglobulin G and Immunoglobulin M
5. Enumerate Dreyer-Bennett Hypothesis. (10)

PART-(B) (50)

6. Explain three important B- cell differentiation events. (10)
7. Write short note on the following: (5*2=10)
a) Structure of MHC
b) CD8 Cytotoxic T-cells
8. Give an overview of T-cell development with a schematic representation. (10)
9. Differentiate between the following: (5+5 =10)
i) Central tolerance and Peripheral tolerance
ii) DNA vaccines and Purified Macromolecules as Vaccines
10. Give an overview of Type III hypersensitivity. (10)

Solved Answers

Answer 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 TITLE:

..... ASSIGNMENT NO.: STUDY CENTRE:

**..... DATE: PLEASE FOLLOW THE ABOVE
FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY. (ignoucollage.in)**

About 500 words

The study and understanding of **on top of the first page of your answer sheet, please write** 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 **on top of the first page of your answer sheet, please write** 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 **on top of the first page of your answer sheet, please write** 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.

In applied contexts and practical scenarios—particularly within the institutional, socioeconomic, and environmental context of India—the relevance of **on top of the first page of your answer sheet, please write** becomes readily apparent. Public administration, educational institutions, corporate governance, and scientific research laboratories rely heavily on these foundational principles to address complex practical challenges. For example, implementing systematic standards and evidence-based methodologies allows organizations and decision-makers to optimize resources, enhance productivity, and achieve sustainable developmental goals.

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Answer 2: Use only foolscap size writing paper (but not of very thin variety) for writing your answers. (ignoucollage.in)

About 500 words

The study and understanding of **use only foolscap size writing paper (but not of very thin variety)** 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 3: Leave 4 cm margin on the left, top and bottom of your answer sheet. (ignoucollage.in)

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Answer 4: Your answers should be precise. (ignoucollage.in)

About 500 words

The study and understanding of **your answers should be precise** 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 5: Solve Part (A) and Part (B) of this assignment , and submit the complete assignment answer sheets within the due date. (ignoucollage.in)

About 500 words

The study and understanding of **solve part (a) and part (b) of this assignment , and submit** 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 6: 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. We strongly suggest that you retain a copy of your answer sheets. (ignoucollage.in)

About 500 words

The study and understanding of **the assignment answer sheets are to be submitted to your study centre** 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 7: This assignment is valid from 1st Jan, 2026 to 31st Dec, 2026. If you have failed in this assignment or fail to submit it by Dec, 2026, then you need to get the assignment for the year 2027, and submit it as per the instructions given in the Programme Guide. (ignoucollage.in)

About 500 words

The study and understanding of **this assignment is valid from 1st jan, 2026 to 31st dec, 2026.** 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

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Answer 8: Give an overview of cells of immune system. 2 a) How pathogen is internalised? (5+5=10) b) Describe the traits of Immunogen (ignoucollage.in)

About 500 words

The study and understanding of **give an overview of cells of immune system. 2 a) how pathogen** 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 9: Explain the classical pathway of complement activation. (ignoucollage.in)

About 500 words

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Answer 10: Differentiate between: a) Idiotype and Allotype Determinants b) Immunoglobulin G and Immunoglobulin M (5+5=10) (ignoucollage.in)

About 500 words

The study and understanding of **differentiate between: a) idiotype and allotype determinants b) immunoglobulin g and immunoglobulin** 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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