

BGYCT-137: Geomorphology and Remote Sensing

Course Code	BGYCT-137
Course Title / Subject	Geomorphology and Remote Sensing
Programme	B.Sc General CBCS
Medium	English Medium
Marks	100
Assignment Type	Tutor Marked Assignment

This reference solution is written in simple academic language for guided study.

Official Assignment / Syllabus Page

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Tutor Marked Assignment

STRATIGRAPHY AND PALAEOLOGY

Course Code: BGYCT-137

Assignment Code: BGYCT-137/TMA/2025

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

1. Write short notes on the following:
 - a) Geological time scale (5)
 - b) Stratigraphy correlation (5)
2. Discuss in detail, various types of stratigraphic classification. (10)
3. Give a detailed account of the stratigraphy of the Delhi and the Vindhyan supergroups. (10)
4. Discuss Mesozoic stratigraphy of Kachchh. (10)
5. Discuss the stratigraphic classification and economic importance of the Gondwana Supergroup. (10)

Part B

6. What are fossils? Describe various types of fossils. (10)
7. Write short notes on the following:
 - a) Organic-walled microfossils (5)
 - b) Evolutionary stages of horse (5)
8. What are plant fossils? Discuss the main modes of their preservation. (10)
9. Discuss the morphology and geological history of corals. (10)
10. Write short notes on the following:
 - a) Morphology of trilobites (5)
 - b) Geological history of bivalves (5)

Solved Answers

Answer 1: Write short notes on the following: a) Geological time scale b) Stratigraphy correlation (ignoucollage.in)

About 250 words

The study and understanding of **following: a) geological time scale b) stratigraphy correlation** 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 **following: a) geological time scale b) stratigraphy correlation** 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.

In applied contexts and practical scenarios—particularly within the institutional, socioeconomic, and environmental context of India—the relevance of **following: a) geological time scale b) stratigraphy correlation** 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.

In summary, a thorough mastery of **following: a) geological time scale b) stratigraphy correlation** is essential for achieving complete conceptual clarity in this field. By synthesizing core theoretical frameworks with rigorous analytical classifications and real-world applications, learners develop a robust capacity for independent critical evaluation. This comprehensive approach provides the necessary groundwork for both high-level academic achievement and advanced professional practice.

Answer 2: Discuss in detail, various types of stratigraphic classification. (ignoucollage.in)

About 250 words

The study and understanding of **in detail, various types of stratigraphic classification** 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: Give a detailed account of the stratigraphy of the Delhi and the Vindhyan supergroups. (ignoucollage.in)

About 250 words

The study and understanding of **give a detailed account of the stratigraphy of the Delhi and 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.

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Answer 4: Discuss Mesozoic stratigraphy of Kachchh. (ignoucollage.in)

About 250 words

The study and understanding of **mesozoic stratigraphy of Kachchh** 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

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Answer 5: Discuss the stratigraphic classification and economic importance of the Gondwana Supergroup. Part B (ignoucollage.in)

About 250 words

The study and understanding of **stratigraphic classification and economic importance of the gondwana supergroup. part b** 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: What are fossils? Describe various types of fossils. (ignoucollage.in)

About 250 words

The study and understanding of **fossils? describe various types of fossils** 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: Write short notes on the following: a) Organic-walled microfossils b) Evolutionary stages of horse (ignoucollage.in)

About 250 words

The study and understanding of **following: a) organic-walled microfossils b) evolutionary stages of horse** 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 8: What are plant fossils? Discuss the main modes of their preservation. (ignoucollage.in)

About 250 words

The study and understanding of **plant fossils? discuss the main modes of their preservation** 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: Discuss the morphology and geological history of corals. (ignoucollage.in)

About 250 words

The study and understanding of **morphology and geological history of corals** 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

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Answer 10: Write short notes on the following: a) Morphology of trilobites b) Geological history of bivalves (ignoucollage.in)

About 250 words

The study and understanding of **following: a) morphology of trilobites b) geological history of bivalves** 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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