

OBJECTIVE TYPE QUESTIONS FOR GEOLOGY File PDF

Objective Type Questions for Geology

Geology, the scientific study of the Earth's physical structure, processes, materials, and history, is a fundamental subject for students preparing for various competitive exams, university courses, and professional certifications. One of the most effective ways to assess knowledge in geology is through objective type questions (OTQs). These questions are designed to evaluate a candidate's understanding of key concepts, terminology, and principles in a concise and straightforward manner. In this comprehensive guide, we will explore the significance of objective type questions in geology, provide sample questions, discuss strategies to approach them, and highlight important topics frequently tested in these exams.

Importance of Objective Type Questions in Geology

Understanding the value of OTQs in geology helps students appreciate their role in exam preparation and knowledge assessment. Here are several reasons why objective questions are crucial:

1. Efficient Assessment of Knowledge

- OTQs allow quick evaluation of a wide range of topics within a limited time.
- They help identify areas of strength and weakness.

2. Standardization and Fairness

- Provide a uniform way to compare candidates' knowledge.
- Minimize subjective bias in grading.

3. Reinforcement of Concepts

- Encourage memorization and recall of fundamental facts.
- Reinforce learning through repeated practice.

4. Preparation for Competitive Exams

- Many competitive exams, such as GATE, UPSC, and state-level tests, rely heavily on objective questions.
- Familiarity with OTQ patterns enhances exam performance.

Common Types of Objective Questions in Geology

Objective questions in geology typically fall into several categories, each testing different cognitive skills.

1. Multiple Choice Questions (MCQs)

- Present a question with four or five options.
- Candidates select the correct or best answer.

2. True/False Questions

- State a statement related to geology.
- Candidates choose whether the statement is true or false.

3. Match the Following

- Match items in one column with corresponding items in another.
- Tests associations between concepts.

4. Fill in the Blanks

- Complete sentences with appropriate terms.
- Assess knowledge of terminology and concepts.

Sample Objective Type Questions in Geology

To better understand the scope of OTQs in geology, here are sample questions across various topics and formats.

1. Multiple Choice Questions (MCQs)

- Which mineral is the hardest on the Mohs scale?

- a) Gypsum
- b) Talc
- c) Diamond
- d) Calcite

- Answer: c) Diamond

- Which is the oldest geological era?

- a) Mesozoic
- b) Paleozoic
- c) Precambrian
- d) Cenozoic

- Answer: c) Precambrian

2. True/False Questions

- The Earth's outer core is composed mainly of solid iron. (False)

- Fossil fuels are derived from the remains of ancient plants and animals. (True)

3. Match the Following

Column A	Column B
Igneous Rock	Formed from cooled magma or lava
Metamorphic Rock	Formed under high pressure and temperature
Sedimentary Rock	Formed from deposition of sediments

4. Fill in the Blanks

- The process of breaking down rocks into smaller pieces is called _____.

Answer: Weathering

- The supercontinent that existed during the late Paleozoic era is known as _____.

Answer: Pangaea

Key Topics Frequently Covered in Objective Questions in Geology

To excel in objective type questions, students should focus on core areas of geology. Below are some critical topics and concepts:

1. Earth's Composition and Structure

- Layers of the Earth: crust, mantle, core
- Properties of each layer
- Earthquake waves and internal structure

2. Minerals and Rocks

- Mineral properties and identification
- Classification of rocks: igneous, sedimentary, metamorphic
- Rock cycle processes

3. Plate Tectonics and Geodynamics

- Types of plate boundaries
- Mechanisms of plate movements
- Seismic activity and volcanic eruptions

4. Geological Processes

- Weathering and erosion
- Sedimentation and diagenesis
- Metamorphism

5. Geological Time Scale and Fossils

- Eras, periods, and epochs
- Principles of stratigraphy
- Types of fossils and their significance

6. Mineral Resources and Environmental Geology

- Types of mineral deposits
- Environmental impact of mining
- Conservation of geological resources

Strategies to Prepare for Objective Type Questions in Geology

Effective preparation involves understanding the exam pattern, practicing regularly, and focusing on key concepts.

1. Understand the Syllabus and Exam Pattern

- Review the syllabus thoroughly.
- Familiarize yourself with the question types and marking scheme.

2. Study Standard Textbooks and Notes

- Use recommended books for in-depth knowledge.
- Make concise notes for quick revision.

3. Practice Previous Year Question Papers

- Identify frequently asked questions.
- Improve time management skills.

4. Take Mock Tests and Quizzes

- Simulate exam conditions.
- Track progress and improve accuracy.

5. Focus on Conceptual Clarity

- Avoid rote memorization; aim to understand concepts.
- Use diagrams and flowcharts for complex topics.

Additional Tips for Success

- Keep abreast of recent geological discoveries and current events.
- Regular revision enhances retention.
- Use mnemonic devices to memorize facts.
- Join study groups to discuss difficult topics.

Conclusion

Objective type questions for geology serve as an essential tool for assessing a candidate's grasp of the Earth sciences. They cover a broad spectrum of topics, from mineral properties to geological processes and the Earth's history. By familiarizing yourself with common question formats, practicing regularly, and focusing on key concepts, you can significantly improve your performance. Remember, consistent effort and a strategic approach are vital to mastering objective questions in geology and excelling in your exams. Whether you are preparing for competitive exams, university assessments, or professional certifications, a solid understanding of objective questions will serve as a strong foundation for your success in geology.

Objective Type Questions for Geology: A Comprehensive Guide

Geology, the scientific study of the Earth, its materials, structures, processes, and history, forms a crucial part of Earth sciences. For students, researchers, and professionals preparing for examinations or assessments, mastering objective type questions (OTQs) is essential. These questions are widely used across various competitive exams, university tests, and professional certifications because they effectively evaluate a candidate's knowledge, understanding, and analytical skills efficiently and objectively. This guide aims to delve deep into the realm of objective questions for geology, providing insights into their structure, types, strategies for preparation, and practical tips for mastering them.

Understanding Objective Type Questions in Geology

Objective type questions are designed to test specific knowledge points, often with a clear, unambiguous answer. They differ from descriptive or essay-based questions by requiring the examinee to select the correct option from given choices. Their advantages include:

- Efficiency in assessment: Cover a broad syllabus in a limited time.
- Objectivity: Minimize examiner bias.
- Ease of evaluation: Rapid and accurate scoring, especially with multiple-choice formats.
- Assessment of varied cognitive levels: From basic recall to application and analysis.

Types of Objective Questions in Geology

Objective questions in geology can be broadly categorized into several types, each serving different assessment purposes:

1. Multiple Choice Questions (MCQs)

- Definition: A question stem followed by four or five options, with only one correct answer.
- Example:

Which mineral is the hardest known naturally occurring substance?

- a) Diamond
- b) Quartz
- c) Topaz
- d) Corundum

- Features:
- Widely used in exams.
- Can include ?single correct answer? or ?multiple correct answers? formats.

2. True/False Questions (T/F)

- Definition: A statement where the candidate determines its correctness.
- Example:

The Earth's core is composed mainly of iron and nickel. (True/False)

- Features:
- Simple and quick.
- Effective for testing basic facts.

3. Match the Following

- Definition: Items in one column are matched with items in another.

- Example:

Match the mineral with its classification:

- Quartz ? a) Silicate
- Hematite ? b) Oxide
- Gypsum ? c) Sulfate

- Features:
- Assesses knowledge of associations.
- Useful for classification and correlation.

4. Fill in the Blanks

- Definition: Complete the sentence by filling the missing word or phrase.
- Example:

The most abundant mineral in the Earth's crust is _____.

5. Assertion and Reason

- Definition: Two statements are provided; the candidate determines if both are true and if the reason correctly explains the assertion.
- Example:

Assertion: The Himalayas are still rising due to tectonic activity.

Reason: The Indian plate is colliding with the Eurasian plate.

Options:

- a) Both assertion and reason are true, and reason explains the assertion.
- b) Both are true but reason does not explain the assertion.
- c) Assertion is true, reason is false.

d) Both are false.

Important Topics and Frequently Tested Areas in Geology Objective Questions

To excel in objective questions, it's vital to identify key topics that are recurrently tested. These include:

1. Mineralogy

- Definitions and properties of common minerals.
- Identification based on physical properties.
- Classification of minerals.

2. Petrology

- Types of rocks: Igneous, Sedimentary, Metamorphic.
- Rock formation processes.
- Characteristics and examples.

3. Structural Geology

- Faults, folds, and joints.
- Plate movements and geological structures.
- Interpretation of geological maps.

4. Stratigraphy

- Principles of stratigraphy (superposition, original horizontality).
- Major geological time periods.
- Stratigraphic correlation methods.

5. Paleontology

- Fossil types.
- Uses of fossils in dating and correlation.

- Evolutionary principles.

6. Geomorphology

- Landforms and their formation.
- Erosion and depositional processes.
- Coastal and fluvial landforms.

7. Geological Resources and Engineering

- Mineral and energy resources.
- Environmental considerations.
- Engineering geology applications.

8. Earth's Interior and Geodynamics

- Structure of Earth's layers.
- Seismic waves and their significance.
- Plate tectonics theory.

Strategies for Preparing Objective Questions in Geology

Effective preparation involves understanding the exam pattern, practicing regularly, and honing test-taking strategies.

1. Know the Syllabus Thoroughly

- Break down topics into manageable sections.
- Focus on high-weightage areas.

2. Use Standard Reference Books and Resources

- NCERT textbooks for foundational concepts.
- Reference books by authors like K. V. Singh, R. K. Bhandari, etc.
- Geological survey publications.

3. Practice Past Papers and Mock Tests

- Familiarize with question patterns.
- Identify frequently asked questions.
- Work on time management.

4. Develop a Conceptual Understanding

- Avoid rote memorization; aim to understand concepts.
- Use diagrams and flowcharts for visualization.

5. Use Process of Elimination

- Narrow down options logically.
- Discard obviously incorrect choices.

6. Keep Updated with Recent Developments

- Current geological discoveries.
- New classifications or theories.

Tips for Mastering Objective Type Questions in Geology

- Read questions carefully: Pay attention to keywords like "not," "except," "only," etc.
- Manage your time efficiently: Allocate time per question, avoid spending too long on difficult ones.
- Answer easy questions first: Build confidence and secure marks early.
- Guess intelligently: When unsure, eliminate the most unlikely options.
- Review answers if time permits: Check for overlooked mistakes or misread questions.

Common Challenges and How to Overcome Them

- Ambiguous questions: Clarify by understanding the context or rephrasing mentally.
- Distracting options: Focus on factual correctness; avoid being misled by similar-sounding options.

- Memory overload: Use mnemonics and summaries to retain key facts.
- Time pressure: Practice under timed conditions to improve speed.

Sample Objective Questions for Practice

- Which is the most abundant element in the Earth's crust?

- a) Oxygen
- b) Silicon
- c) Aluminum
- d) Iron

- The principle of superposition is used in which branch of geology?

- a) Mineralogy
- b) Stratigraphy
- c) Structural geology
- d) Paleontology

- Which of the following is a sedimentary rock?

- a) Granite
- b) Basalt
- c) Sandstone
- d) Gneiss

- The Richter scale measures:

a) Volcanic intensity

b) Earthquake magnitude

c) Tsunami height

d) Rock hardness

- The 'Wilson Cycle' is associated with which geological process?

a) Plate tectonics and supercontinent cycles

b) Rock metamorphism

c) Mineral formation

d) Fossilization processes

Conclusion

Mastering objective type questions in geology requires a strategic approach grounded in thorough understanding, consistent practice, and analytical skills. While they are designed to test specific knowledge points, the best preparation combines conceptual clarity with familiarity with question patterns. By focusing on core topics, practicing past papers, and developing smart test strategies, aspirants can significantly enhance their performance in exams involving objective questions. Remember, success in objective questions is not just about memorization but also about understanding the concepts and applying them effectively under exam conditions.

In summary, objective type questions are an integral part of geology assessments. They serve as an efficient way to evaluate a candidate's breadth and depth of knowledge. A systematic approach to preparation, coupled with familiarity with question types and strategic answering techniques, can lead to excellent results. Whether you are a student preparing for competitive exams or a professional reviewing fundamental concepts, mastery over OTQs will undoubtedly boost your confidence and performance in the field of geology.

Question What is the primary purpose of objective type questions in geology exams? To assess students' factual knowledge, understanding of concepts, and ability to recall information quickly and accurately. Which type of objective questions are most commonly used in geology assessments? Multiple-choice questions (MCQs) are most commonly used, often accompanied by true/false and matching questions. How can students best prepare for objective type questions in

geology? By thoroughly reviewing key concepts, memorizing important facts, practicing past question papers, and understanding the application of geological principles. What are some common topics covered in objective questions for geology? Mineralogy, petrology, stratigraphy, structural geology, paleontology, geological maps, and earth processes. Why are objective type questions important in evaluating a student's knowledge in geology? They provide a quick and reliable way to evaluate a wide range of knowledge, helping identify areas of strength and weakness efficiently.

Related keywords: geology multiple choice questions, geology quiz questions, earth science MCQs, geology exam questions, geology test prep, structural geology questions, mineralogy MCQs, petrology quiz questions, geological formations MCQs, crustal geology questions

CIVIL 3RD SEM GEOLOGY NOTES FOR BE

Civil 3rd Sem Geology Notes for BE are an essential resource for civil engineering students aiming to excel in their third-semester coursework. Geology is a crucial subject that provides foundational knowledge about Earth's materials, processes, and structures, all of which are vital for civil engineering projects such as construction, excavation, tunneling, and foundation design. This article offers comprehensive, SEO-friendly notes tailored specifically for BE students, covering key topics, concepts, and exam-oriented insights to help you grasp the subject thoroughly.

Introduction to Civil Geology

Geology forms the backbone of civil engineering by providing insights into the Earth's composition, structure, and processes. Understanding geological principles aids engineers in predicting ground behavior, selecting appropriate construction sites, and designing safe structures. Civil 3rd-semester geology covers fundamental topics such as mineralogy, petrology, structural geology, and engineering geology.

Importance of Geology in Civil Engineering

Geological knowledge is indispensable for:

- Site selection and evaluation
- Foundation design and stability analysis
- Assessment of soil and rock properties
- Designing tunnels, dams, and bridges

- Mitigating natural hazards like earthquakes and landslides

Understanding geology ensures safety, cost-efficiency, and sustainability of civil engineering projects.

Key Topics Covered in Civil 3rd Sem Geology Notes for BE

1. Mineralogy and Petrology

Mineralogy involves studying minerals that constitute rocks, while petrology focuses on rocks themselves.

- **Minerals:** Definition, classification, physical properties, and economic importance.
- **Rock Types:** Igneous, sedimentary, and metamorphic rocks.
- **Formation Processes:** Magmatic, sedimentary, and metamorphic processes.
- **Engineering Significance:** Strength, durability, and suitability of rocks for construction.

2. Structural Geology

Structural geology studies the deformation of rocks and geological structures.

- **Folds:** Types (anticlines, synclines), characteristics, and significance.
- **Faults:** Types (normal, reverse, strike-slip), causes, and effects on ground stability.
- **Dislocations:** Joints, fissures, and their influence on engineering projects.
- **Applications:** Predicting ground behavior and designing foundations.

3. Geology of Earth's Interior

Understanding Earth's internal structure is vital for geotechnical applications.

- Crust, Mantle, Outer and Inner Core
- Seismic waves and Earth's internal composition
- Plate tectonics and their impact on surface geology

4. Soil and Rock Mechanics

This section covers the physical and mechanical properties of soils and rocks.

- Types of soils: Sandy, silty, clayey, and their engineering properties.
- Soil testing methods: Sieve analysis, Atterberg limits, compaction tests.
- Rock strength and deformability tests.
- Stress-strain behavior and failure criteria.

5. Engineering Geology

Application of geological principles to engineering problems.

- Site investigations and exploration techniques.
- Identification of landforms and subsurface conditions.
- Identification of geological hazards: Landslides, earthquakes, subsidence.
- Ground improvement and stabilization methods.

6. Stratigraphy and Fossils

Study of stratification and fossil records.

- Principles of stratigraphy: Superposition, original horizontality, lateral continuity.
- Correlation of strata and geological time scale.
- Types of fossils and their significance in dating rocks.

7. Geological Maps and Surveying

Techniques for representing geological information visually.

- Types of geological maps.
- Methods of geological surveying.
- Interpretation of maps and cross-sections.

Preparation Tips for Civil 3rd Sem Geology Exam

To excel in your geology exam, consider the following study strategies:

- Refer to standard textbooks and your college notes for comprehensive understanding.
- Create summarized notes and flashcards for quick revision.
- Practice drawing geological structures and maps.

- Solve previous years? question papers and sample papers.
- Understand the practical applications of theoretical concepts.
- Participate in group discussions and doubt clearing sessions.

Useful Resources for Civil 3rd Sem Geology Studies

Enhance your learning with these resources:

- Standard textbooks such as ?Engineering Geology? by F.G. Bell or ?Principles of Geology? by William Morris Davis.
- Online educational platforms offering lecture videos and tutorials.
- Geological survey reports and publications for real-world insights.
- College laboratory manuals and practice sheets.

Conclusion

Mastering civil 3rd sem geology notes for BE is crucial for understanding the Earth's materials and processes, which directly influence civil engineering practices. A solid grasp of mineralogy, structural geology, soil mechanics, and engineering geology equips students with the knowledge to undertake safe and sustainable construction projects. Consistent study, practical application, and resource utilization are the keys to excelling in this subject and laying a strong foundation for your civil engineering career.

By focusing on these core topics, practicing problem-solving, and staying updated with geological surveys and reports, students can confidently approach their exams and future projects. Remember, geology is not just about rocks; it's about understanding the Earth to build a better, safer world.

Civil 3rd Sem Geology Notes for BE: An In-Depth Review and Guide

Geology forms an essential part of civil engineering education, especially for students pursuing a Bachelor of Engineering (BE). The third-semester geology notes tailored for civil engineering students offer a comprehensive overview of the fundamental concepts necessary for understanding earth materials, processes, and their applications in construction and infrastructure projects. This review aims to analyze the content, structure, and usefulness of these notes, providing insights into how they can aid students in excelling academically and practically in their civil engineering journey.

Introduction to Civil 3rd Sem Geology Notes

The civil 3rd sem geology notes for BE serve as a vital resource for students to grasp the basics of geology relevant to civil engineering. These notes typically cover topics such as mineralogy,

petrology, structural geology, and applied geology, all tailored to meet the curriculum requirements. Well-structured notes enable students to understand core concepts efficiently, prepare for exams, and develop a foundation for advanced topics in later semesters.

The importance of these notes cannot be overstated as geology influences various aspects of civil engineering?be it site investigations, foundation design, tunneling, or understanding soil-structure interactions. Therefore, having clear, concise, and comprehensive notes is crucial for students aiming to excel in their coursework and future professional roles.

Content Breakdown of Civil 3rd Sem Geology Notes

The notes are generally organized into several key sections, each focusing on specific aspects of geology pertinent to civil engineering.

1. Mineralogy and Petrology

This section introduces students to minerals' properties, classification, and their significance in geology. It covers:

- Properties of minerals
- Mineral identification techniques
- Types of rocks: Igneous, Sedimentary, and Metamorphic
- Formation and uses of rocks in civil engineering

Features:

- Clear diagrams illustrating mineral structures
- Tables summarizing mineral properties
- Examples of rocks used in construction

Pros:

- Provides foundational knowledge for understanding soil and rock behavior
- Helps in identifying suitable construction materials

Cons:

- May require supplementary practical sessions for better understanding

2. Structural Geology

This segment discusses geological structures such as folds, faults, joints, and their influence on earth stability. It emphasizes:

- Types of folds and faults
- Structural analysis techniques
- Implications for construction projects

Features:

- Real-world examples
- Simplified diagrams illustrating structures

Pros:

- Essential for assessing site stability
- Aids in interpreting geological maps

Cons:

- Complex concepts may need additional explanation for beginners

3. Earth Materials and Soil Mechanics

A core topic for civil engineers, this part covers:

- Properties of soils and rocks
- Soil classification
- Soil testing methods
- Basic principles of soil mechanics

Features:

- Step-by-step procedures for common tests
- Charts depicting soil classification systems

Pros:

- Practical insights into site investigations
- Helps in designing foundations and earthworks

Cons:

- Theoretical focus; practical application requires field experience

4. Geological Maps and Surface Features

Understanding geological maps is crucial for site analysis. This section includes:

- Reading and interpreting geological maps
- Surface features such as landforms
- Use of maps in engineering projects

Features:

- Sample maps with annotations
- Exercises for map reading skills

Pros:

- Improves interpretative skills for fieldwork
- Enhances understanding of terrain and subsurface conditions

Cons:

- May need supplementary map-reading practice

5. Engineering Geology

This part integrates geology with engineering applications, covering:

- Site investigations
- Selection of foundation types
- Landslides and stability problems
- Case studies

Features:

- Practical examples from civil engineering projects
- Guidelines for conducting site investigations

Pros:

- Bridges theoretical knowledge with practical applications
- Prepares students for real-world challenges

Cons:

- Depth of coverage varies; may need additional resources for advanced topics

Features and Benefits of the Notes

The civil 3rd semester geology notes are designed to be comprehensive yet accessible. Here are some notable features:

- **Concise and Structured Content:** Organized systematically to facilitate quick revision and better understanding.
- **Illustrations and Diagrams:** Visual aids simplify complex geological structures and concepts.
- **Curriculum Alignment:** Tailored specifically for BE students in civil engineering, covering relevant topics thoroughly.
- **Exam-Oriented Approach:** Includes typical questions, summaries, and important points to assist in exam preparation.
- **Practical Focus:** Emphasizes real-world applications, enhancing the relevance of theoretical concepts.

Overall Benefits:

- Serves as an effective study companion for semester exams.
- Acts as a quick reference during project work or field investigations.
- Builds a solid foundation for advanced coursework and professional practice.

Pros and Cons of Civil 3rd Sem Geology Notes

Pros:

- Well-structured and easy to follow
- Incorporates diagrams and illustrations for clarity
- Focused on topics relevant to civil engineering applications
- Facilitates quick revision before exams
- Serves as a practical guide for site investigation activities

Cons:

- May lack detailed explanations for complex topics
- Might require supplementary textbooks or practical sessions
- Static content; may need updates to include recent geological discoveries or techniques
- Not interactive; lacks multimedia or digital features

How to Maximize the Use of These Notes

To derive maximum benefit from the civil 3rd sem geology notes, students should consider the following strategies:

- **Active Reading:** Engage with diagrams, annotations, and summaries rather than passively reading.
- **Cross-Reference:** Use additional textbooks and online resources to clarify complex topics.
- **Practice Questions:** Solve end-of-chapter questions to reinforce understanding and exam readiness.
- **Field Visits:** Complement notes with field visits and practical exercises for hands-on experience.
- **Group Discussions:** Collaborate with peers to discuss challenging concepts and share insights.
- **Regular Revision:** Schedule periodic revision sessions to retain information effectively.

Conclusion

The civil 3rd sem geology notes for BE are an invaluable resource that consolidates essential geological concepts tailored for civil engineering students. Their well-organized structure, inclusion of diagrams, and focus on practical applications make them highly useful for both academic success and real-world engineering tasks. While they may have limitations in depth and interactivity, when supplemented with practical experience and additional resources, these notes can significantly enhance a student's understanding of geology's role in civil engineering.

For students aiming to excel in their third semester and lay a strong foundation for future coursework, investing time in thoroughly studying these notes is highly recommended. They not only prepare students for exams but also equip them with the geological knowledge necessary for responsible and informed civil engineering practice.

QuestionAnswer What are the main topics covered in Civil 3rd semester Geology notes for BE students? The notes typically cover topics such as mineralogy, petrology, structural geology, geological maps, stratigraphy, and geological engineering principles relevant to civil engineering students. How can I effectively utilize Civil 3rd semester Geology notes for exam preparation? To maximize your learning, review the notes regularly, focus on key concepts and diagrams, practice solving related questions, and supplement with previous year question papers for better understanding. Are there any online resources or videos recommended for understanding Civil 3rd semester Geology topics? Yes, platforms like NPTEL, YouTube channels dedicated to geology and civil engineering, and university online portals offer valuable tutorials and lectures that complement your notes. What are the common challenges faced by students while studying Civil 3rd semester Geology, and how can they overcome them? Students often find geological terminology and diagrams challenging. Overcoming this involves active reading, making detailed notes, practicing diagram drawing, and discussing topics with peers or instructors. How important are Civil 3rd semester Geology notes for understanding future civil engineering applications? These notes lay the foundation for understanding earth materials, soil and rock behavior, and geological hazards, which are crucial for designing safe structures, foundations, and infrastructure projects in civil engineering.

Related keywords: civil 3rd sem geology notes, BE geology notes, civil engineering geology, geology lecture notes, geotechnical engineering notes, earth science notes for BE, geological engineering notes, structural geology notes, mineralogy notes for civil students, geological survey notes

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