

**BGYET-141**

## **ASSIGNMENT**

**Bachelor's Degree Programme (BSCG)**  
**ORE GEOLOGY AND INDUSTRIAL MINERALS**

**Validity: 1<sup>st</sup> January 2023 to 31<sup>st</sup> December 2023**

**It is compulsory to submit the assignment (TMA) before filling the  
Term-End Examination (TEE) Form**



**School of Sciences**  
**Indira Gandhi National Open University**  
**Maidan Garhi, New Delhi-110 068 (INDIA)**

**(2023)**

Dear Learner,

Please read the section on assignments in the Programme Guide for BSCG that we sent you after your enrollment. 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 assignment is in this booklet, and it consists of two parts, Part A and B. The total marks of all the parts are 100, of which 35% are needed to pass it.

### Instructions for Formatting Your Assignments

1. Before attempting the assignment please read the following instructions carefully:

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Enrollment No.: .....

Name: .....

Address: .....

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Course Title: .....

Assignment No.: .....

Address: .....

Study Centre: .....

Date: .....

(Name and Code)

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**PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.**

2. Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
3. Leave 4 cm margin on the left, top and bottom of your answer sheet.
4. Your answers should be precise.
5. Solve Part A and Part B of this assignment, and **submit the complete assignment answer sheets containing Parts A and B within the due date.**
6. **The assignment answer sheets are to be submitted to your Study Centre within as per the schedule. Answer sheets received after the due date shall not be accepted.**
7. We strongly suggest that you retain a copy of your answer sheets.
8. This assignment is **valid from 1<sup>st</sup> January 2023 to 31<sup>st</sup> December 2023**. If you have failed in this assignment or fail to submit it by December, 2023, then you need to get the assignment for the year 2024, and submit it as per the instructions given in the Programme Guide.
9. **You cannot fill the examination form for this course** until you have submitted this assignment. For any queries, please contact: [kakoligogoi@ignou.ac.in](mailto:kakoligogoi@ignou.ac.in), and [mprashanth@ignou.ac.in](mailto:mprashanth@ignou.ac.in)

We wish you good luck.

**Tutor Marked Assignment**  
**ORE GEOLOGY AND INDUSTRIAL MINERALS**

**Course Code: BGYET-141**  
**Assignment Code: BGYET-141/TMA/2023**  
**Maximum Marks: 100**

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**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) Explain the ore deposition at constructive plate boundaries. (5)
  - b) List the characteristic features of any two metallogenic epochs. (5)
2. Discuss major components of ore microscope with suitable diagrams. (10)
3. Discuss in detail the Modern classification of ore deposits. (10)
4. Give a brief account of igneous host rocks associated with the ore bodies. (10)
5. What is wall rock alteration? Describe the types of wall rock alteration and their mineral assemblages. (10)

**Part B**

6. Discuss the mode of occurrence of chromium ores. (10)
7. Write short notes on:
  - a) Mineralogical guides. (5)
  - b) Distribution of coal bed methane. (5)
8. Discuss the physical properties of chief ores of zinc. (10)
9. Discuss the salient features of National Mineral Policy of India. (10)
10. a) Describe in detail the rare metals and metalloids. (5)  
b) Write about the methods of geological exploration. (5)