

ASSIGNMENT

**Bachelor's Degree Programme
(BSCG)**

ORE GEOLOGY AND INDUSTRIAL MINERALS

Validity: 1 January 2026 to 31 December 2026

It is compulsory to submit assignment prior to filling Examination form



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

(2026)

Dear Learner,

Please read the section on assignments in the Programme Guide for B. Sc. that we sent you after your enrolment. 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:

Enrolment No.: Name:
Address:
Course Title: Assignment No.:
Address:
Study Centre: Date:

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 the due date as per the schedule specified by the University. **Answer sheets received after the due date shall not be accepted.**
7. **We strongly suggest keeping a copy of your answer sheets with you for future reference.**
8. This assignment is **valid from 1st January 2026 to 31st December 2026**. If you have failed in this assignment or fail to submit it by December 2026, then you need to get the assignment for the year **2027**, and submit it as per the instructions given in the Programme Guide and/or latest IGNOU guidelines.
9. Last Date for Submission of Assignment:

Admission session	Date of submission	Where to submit
January, 2026	31 st March, 2026	Study Centre
July, 2026	30 th September, 2026	Study Centre

Please note that last date of submission may be changed by the University. Please check IGNOU website for updated information regarding due date of assignment submission.

10. It is advised to keep with you a photocopy of the assignment(s) submitted by you.
11. **You cannot fill the examination form for this course** until you have submitted this assignment. For any queries, please contact: kakoligogoi@ignou.ac.in, rbaskar@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/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. Write the answers in about 250 words for 5 marks questions and not exceeding 500 words for 10 marks questions.

Part A

1. Write short notes on the following:
 - a) Metallogenic provinces. (5)
 - b) Skarn Formation. (5)
2. Discuss various classification of ore deposits. (10)
3. Discuss the syngenetic and epigenetic ore deposits associated with different types of rocks. (10)
4. Discuss the different processes of late magmatic ore deposits. (10)
5. Explain the characteristics of ophiolite hosted Cu-Zn deposits and Exhalative oxide ore deposits. (10)

Part B

6. Discuss the minerals used in drilling industry. (10)
7. Write short notes on the following:
 - a) Atomic minerals (5)
 - b) Origin of petroleum (5)
8. Discuss the chief ores, mode of occurrence of copper deposits. Add a note on distribution of copper deposits in India. (10)
9. Discuss the principles and stages of mineral exploration? (10)
10. Discuss mineral conservation laws and seabed mining in India. (10)