

BGYET-141

ASSIGNMENT

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

Validity: 1 January 2024 to 31 December 2024

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)

(2024)

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:

(Name and Code)

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 1st January 2024 to 31st December 2024**. If you have failed in this assignment or fail to submit it by 31st December, 2024, then you need to get the assignment for the year 2025, 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, 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/2024
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: (5)
 - a) Factors influencing reserve estimation (5)
 - b) Characteristic features of exhalative oxide ore deposits
2. What is contact metasomatism? Explain the characteristic features involved in the formation of metasomatic deposits with a neat diagram. (10)
3. Discuss the spatial and temporal distribution of iron and manganese deposits in India. (10)
4. Give an account of oxidation and supergene enrichment processes with neat diagram. (10)
5. Discuss the historical development with reference to classification of ore deposits during 19th century. (10)

Part B

6. Give an account of mode of occurrence and distribution of aluminium ores in India. (10)
7. Write short notes on the following:
 - a) Stratigraphic and lithological guides (5)
 - b) Distribution of gold in India (5)
8. Explain the physical properties of chief ores of iron. (10)
9. Discuss the salient features of National Mineral Policy
10.
 - a) Write about the macroscopic unit of coal. (5)
 - b) Write about the Geobotanical exploration method. (5)