

BGYCT-131

ASSIGNMENT BOOKLET

Bachelor's Degree Programme (BSCM)

PHYSICAL AND STRUCTURAL GEOLOGY

Valid from 1st January, 2025 to 31st December 2025

It is compulsory to submit assignment prior to filling Examination form



**School of Sciences
Indira Gandhi National Open University
Maidan Garhi, New Delhi-110068**

(2025)

Dear Student,

Please read the section on assignments in the Programme Guide for B. Sc. 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

Before attempting the assignment, please read the following instructions carefully:

- 1) On top of the first page of your answer sheet, please write the details exactly in the following format:

ROLL NO.:
NAME:
ADDRESS:
.....
.....
COURSE CODE:
COURSE TITLE:
ASSIGNMENT NO.:
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 2025 to 31st December 2025**. If you have failed in this assignment or fail to submit it by December 2025, then you need to get the assignment for the year **2026**, and submit it as per the instructions given in the Programme Guide and/or latest IGNOU guidelines.
- 9) **You cannot fill the examination form for this course until you have submitted this assignment.** For any queries regarding, please contact: meenalmishra@ignou.ac.in, bdeshmukh@ignou.ac.in.

We wish you good luck.

Tutor Marked Assignment

PHYSICAL AND STRUCTURAL GEOLOGY

Course Code: BGYCT-131

Assignment Code: BGYCT-131/TMA/2025-2026

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.

Part A

1. Write short notes on the following:
 - a) Relationship of Geology with Earth Science (5)
 - b) Criteria for recognition of faults (5)
2. Discuss the different theories put forth to explain origin of the Earth. Which theory is considered as the best possible model? (10)
3. Describe the depositional landforms resulting from fluvial activities with the help of neat well labelled diagrams. (10)
4. What is soil profile? Explain the different types of soils found in India. (10)
5. Explain how will you measure of dip and strike with the help of clinometer in the field? Add a note on plotting of attitude of beds in your field dairy. (10)

Part B

6. Discuss the geometrical classification of folds with the help of neat well labelled diagrams. (10)
7. Differentiate the following:
 - a) Lithosphere and asthenosphere (5)
 - b) Tectonic and non tectonic joints (5)
8. Explain the types of volcanism based on explosive activity and nature of eruption. (10)
9. Write in detail the evidences in favour of the theory of continental drift. (10)
10. Write short notes on the following:
 - a) Types of unconformities (5)
 - b) Sea floor spreading (5)