

**BGYCT-131**

**ASSIGNMENT BOOKLET**

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

**PHYSICAL AND STRUCTURAL GEOLOGY**

**Valid from 1<sup>st</sup> January, 2024 to 31<sup>st</sup> December 2024**

**It is compulsory to submit assignment prior to filling Examination form**



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

**(2024)**

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:

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**ROLL NO.:** .....

**NAME:** .....

**ADDRESS:** .....

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**COURSE CODE:** .....

**COURSE TITLE:** .....

**ASSIGNMENT NO.:** .....

**STUDY CENTRE:** ..... **DATE:** .....

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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 the due date as per the schedule specified by the University. **Answer sheets received after the due date shall not be accepted.**

**We strongly suggest keeping a copy of your answer sheets with you for future reference.**

- 7) This assignment is **valid from 1<sup>st</sup> January 2024 to 31<sup>st</sup> December 2024**. If you have failed in this assignment or fail to submit it by 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 and/or latest IGNOU guidelines.
- 8) **You cannot fill the examination form for this course until you have submitted this assignment.** For any queries regarding the assignment, please contact: **meenalmishra@ignou.ac.in**, or **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/BSCM/2024  
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) Surface manifestation of underground water (5)
  - b) Uniqueness of geology as compared to other sciences (5)
2. Describe the methods used to determine age of the Earth. (10)
3. Explain geological work by wind with emphasis on erosional landforms with the help of neat well labelled diagrams. (10)
4. Describe constituents of the Earth. (10)
5. Give an account of mass wasting including the causes, factors and types. (10)

#### Part B

6. What is unconformity? Discuss its types giving neat well labelled diagrams. (10)
7. Write short notes on the following:
  - a) Importance of joints (5)
  - b) Major tectonic plates of the world (5)
8. Discuss elements of a fault and its types based on its origin. Also write their geological significance. (10)
9. Give an account of plate tectonic explanation of earthquakes, volcanoes and mountain building. (10)
10. Write short notes on the following:
  - a) Criteria for recognition of folds in field (5)
  - b) Evolution of Himalaya (5)