BGYCT-135

ASSIGNMENT BOOKLET

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

# PETROLOGY

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 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

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:

NAME: ADDRESS:	
COURSE CODE: COURSE TITLE:	
	 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 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, 2024 to 31<sup>st</sup> December, 2024.
- 9) You cannot fill the examination form for this course until you have submitted this assignment. For any queries, please contact: <u>kakoligogoi@ignou.ac.in</u>, <u>meenalmishra@ignou.ac.in</u>

We wish you good luck.

## **Tutor Marked Assignment** PETROLOGY

#### Course Code: BGYCT-135 Assignment Code: BGYCT-135/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. \* 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) Extraterrestrial Rocks	(5)
	b) Phase Rule	(5)
2.	Discuss the different types of textures found in igneous rocks with the	(10)
	help of neat well labelled diagrams.	
3.	Describe various mechanisms of magmatic differentiation.	(10)
4.	Discuss the megascopic and microscopic characters of granite and	(10)
	basalt with the help of neat well labelled diagrams.	

5. Discuss the IUGS Classification of Igneous rocks. (10)

### Part B

6.	Explain briefly the secondary sedimentary structures.	(10)
7.	Describe palimpsest textures present in the metamorphic rocks.	(10)
8.	Discuss the classification of sedimentary rocks based on size and	(10)
	shape of grains.	
9.	Write short notes on:	
	a) Lithification and diagenesis	(5)
	b) Ripple marks	(5)
	c) Zones of metamorphism	(5)
	d) Metamorphic facies	(5)