

ASSIGNMENT BOOKLET

M.Sc. in Geography Programme (MSCGG) (Climatology MGG-005)

Valid from 1st July, 2026 to 30th June, 2027



**School of Sciences
Indira Gandhi National Open University
MaidanGarhi
New Delhi-110068
(2026-27)**

Dear Student,

Please read the section on assignments in the Programme Guide of MSc Geography Programme. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation, **which would consist of one tutor-marked assignment** for this course. The assignment given in this booklet consists of three parts, Part A, B and C. 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:

	ENROLMENT 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) Complete each of Part A, Part B and Part C of this assignment separately, and **submit them together.**
- 6) The assignment answer sheets are to be submitted to your Study Centre within the due date. **Answer sheets received after the due date shall not be accepted. We strongly suggest that you retain a copy of your answer sheets.**
- 7) **This assignment is valid from 1st July, 2026 to 30th June 2027. The last date for assignment submission is as follows:**

30th September 2026 for January 2026 admission cycle

31st March 2027 for July 2026 admission cycle

If you have failed in this assignment or fail to submit it by due date, then you need to get the assignment for the year 2027-28, and submit it as per the instructions given in the Programme Guide.

- 8) **You cannot fill the exam form for this course** till you have submitted this assignment. For any further queries, please contact Programme Coordinators:
satyaraj@ignou.ac.inknrao@ignou.ac.invishalwarpa@ignou.ac.in

We wish you good luck.

**ASSIGNMENT
CLIMATOLOGY**

Course Code: MGG-005

Assignment Code: MGG-005/TMA/2026-27

Maximum Marks: 100

Part-A

All Questions are compulsory and carries 10 marks each

- 1) Define Climatology. Discuss the different phases of the development of climatology.
- 2) Define insolation and discuss the factors affecting insolation. Discuss the concept of heat balance between the earth and atmosphere.
- 3) What is coriolis force? Describe horizontal pressure distribution patterns on earth.
- 4) Define airmass. Describe the winter and summer airmasses of Asia.

Part-B

All Questions are compulsory and carries 10 marks each

- 5) Describe the procedures, tools, and methods used in weather forecasting.
- 6) Discuss different approaches to climatic classification. Describe briefly the broad climatic types of Koppen.
- 7) Give a detailed description of the vertical layers of the earth's atmosphere.

Part-C

8) Write Short notes on the following. All Questions are compulsory and carries 5 marks each.

- a) Distinguish between weather and climate. Identify the elements controlling weather and climate.
- b) Distinguish between prevailing winds and seasonal winds.
- c) Differentiate between fronts and cyclones.
- d) Write a note on Applied Climatology.
- e) Describe the significance of jet streams in shaping global weather patterns and aviation routes.
- f) Differentiate between El Nino and La Nina.

Note: Draw figures wherever necessary.