

ASSIGNMENT BOOKLET-2

2

**POST GRADUATE DIPLOMA
IN ENVIRONMENT AND SUSTAINABLE DEVELOPMENT
(PGDESD)**

**It is compulsory to submit the assignment before
filling in the examination form.**

(Valid from 1st January 2023 to 31st December, 2023)

Tutor Marked Assignments (TMA) for

MED-005

MED-006

MED-007

MED-008



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

(2023)

Dear Student,

This booklet contains the assignments for MED-005, MED-006, MED-007 and MED-008. Each course has **one** assignment, which you need to complete and send us at the given address.

There will be one assignment for each course. You have to complete the assignments on time. Assignment Submission Deadlines are as follows:

Cycle	Course	Deadlines
January	MED-001 to MED-004 MED-005 to MED-008	March, 31 of the same year September, 30 of the same year
July	MED-001 to MED-004 MED-005 to MED-008	September, 30 of the same year March, 31 of the next year

You will not be allowed to appear for the term-end examination for a course if you do not submit the assignment for each course within the deadlines given above. If you appear in the term-end examination of a course without submitting its assignment, the result of the term-end examination is liable to be cancelled/withheld. It is compulsory to submit the assignment before filling in the examination form.

The assignments constitute the continuous component of the evaluation process and have 30% weightage in the final grading. You need to score 40% marks in assignments for each course in order to clear the continuous evaluation component.

Instructions for Formatting Your Assignments

1. You should specify clearly on the first page of all your assignment responses the course code, course title, assignment code, your enrolment number, name and address in the given format:

ENROLMENT NO.:

NAME :

ADDRESS:

.....

.....

COURSE CODE:

COURSE TITLE:

ASSIGNMENT CODE:

STUDY CENTRE CODE:

DATE:

PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND AVOID DELAY.

- 1 **The Assignment Response should be hand-written.** Use only A-4 or foolscap size writing paper (but not of very thin variety) for writing your answers.
1. Leave at least 4 cm margin on the left, top and bottom of your answer sheet for the evaluator's comments.
2. Your answers should be brief, precise and in your own words. **Please do not copy the answers from the study material.**

3. Serious action will be taken if you copy the Assignment Response from any other student.
4. While answering the questions, clearly indicate the question number along with the part being answered. Recheck your work before submitting it.

We recommend that you retain a copy of your assignment response to avoid any unforeseen situation.

Send your completed assignments to: Coordinator of your Study Centre of the respective Regional Centre where you are enrolled

Please write on the envelope “**Assignment Response of**” (Course code).

Wishing you all good luck!

TUTOR MARKED ASSIGNMENT
MED-005: Integrated Environmental Management: Rural and Urban

Course Code: MED-005
Assignment Code: MED-005/TMA/2023
Maximum Marks: 100

- Note:**
- * **This assignment is based on the entire course.**
 - * **All questions are compulsory. Marks for the questions are shown within brackets on the right-hand side.**
 - * **Please answer 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.**
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1. Explain how sustainable development led to the idea of integrated environmental management. (10)
2. What are the benefits of EIA? Explain the EIA process. (5+5=10)
3. Discuss the political and economic constraints on policymaking. (5+5=10)
4. Discuss the effects and problems related to the Green Revolution. (5+5=10)
5. Discuss in detail the principles and practices for sustainable forestry management. (10)
6. Describe the role of the social organisers and community activists to accomplish the task of community mobilization. (10)
7. Elaborate on the major threats to water resources from various human activities. (10)
8. Write short notes on the following:
 - a) Initial environmental examination (IEE) (5)
 - b) Environmental labelling (5)
 - c) South Asia Co-operative Environment Programme (SACEP) (5)
 - d) Stages of policy development (5)
 - e) UNCED Agenda 21 (5)
 - f) Economic incentives (5)

TUTOR MARKED ASSIGNMENT
MED-006: Natural Resource Management: Physical and Biotic

Course Code: MED -006
Assignment Code: MED -006/TMA/2023
Maximum Marks: 100

- Note:** * **This assignment is based on the entire course.**
* **All questions are compulsory. Marks for the questions are shown within brackets on the right-hand side.**
* **Please answer in your own words; do not copy from the course material.**
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1. (a) Briefly explain the physiogeographic regions of India. (5)
(b) Discuss the classification of soils of India giving the important characteristics. (5)
2. (a) Why are the land resources coming under stress day by day? Briefly describe forests and rangelands. (5)
(b) What are problem soils? Discuss. (5)
3. (a) How can the conversion of solid biomass to liquid and gaseous biofuels be advantageous? Explain using examples. (5)
(b) How are mineral resources located and extracted? Explain. (5)
4. (a) Briefly explain the need for the conservation of water reserves. List the strategies used for it. (5)
(b) Discuss various methods of measuring genetic diversity. (5)
5. (a) Differentiate between Beta and Gamma diversities. (5)
(b) Discuss the important characteristics of the Tundra biome. (5)
6. (a) Where is the northeast India zone? Discuss the wildlife present in this zone. (5)
(b) Describe the aesthetic value of biodiversity. (5)
7. (a) Why is wood important for human beings? Differentiate between softwood and hardwood. Give at least two examples of each of the Scientific names. (5)
(b) What is over-exploitation of resources? Give the activities associated with it. (5)
8. (a) Explain the following giving suitable examples: (5)
(i) Endangered species
(ii) Rare species
(b) Explain the need of conserving biodiversity. (5)
9. (a) What are world heritage sites? Explain with suitable examples. (5)
(b) Discuss the negative impacts of nature tourism. (5)
10. (a) What is the wildlife protection act? Explain its role. (5)
(b) Explain important aspects of the Biosafety act. (5)

TUTOR MARKED ASSIGNMENT
MED-007: Agriculture and Environment

Course Code: MED-007
Assignment Code: MED-007/TMA/2023
Maximum Marks: 100

Note: * **This assignment is based on the entire course.**
* **All questions are compulsory. Marks for the questions are shown within brackets on the right-hand side.**
* **Please answer in your own words; do not copy from the course material.**

1. How does the climate of a place affect the agro-ecosystem? Name two other factors that affect the agro-ecosystem structure the most. (10)
2. a) Explain the impact of rising atmospheric CO₂ on agricultural production. (5)
(a) Describe the source and sinks of greenhouse gases (GHGs). (5)
3. How can we maintain the long-term fertility of soils? List the steps to maintain soil organic matter at an optimum level. (10)
4. (a) What are off-farm inputs in agriculture, and why are they called off-farm inputs? (5)
(b) Describe the various ways in which off-farm inputs affect air quality. (5)
5. Explain the future possibilities of an integrated farming system in providing food security in the region. (10)
6. Discuss the components of IPM, and analyse the major issues involved in the implementation of IPM. (10)
7. Discuss the major socio-economic factors that influence the agricultural sector in a country. (10)
8. (a) Discuss the scope and limitations of biotechnology in sustaining agricultural production. (5)
(b) How do post-harvest technologies differ in the storage of food grains and fruits and vegetables? (5)
9. (a) Why and when should we incorporate crop residues in the soil? (5)
(b) Enumerate various changes that take place during composting. (5)
10. (a) Define agro forestry. Describe various systems of agroforestry. (5)
(b) What are the major areas for the development of sound social forestry system? (5)

TUTOR MARKED ASSIGNMENT
MED-008: Globalisation and Environment

Course Code: MED-008
Assignment Code: MED-008/TMA/2023
Maximum Marks: 100

Note: * **This assignment is based on the entire course.**
* **All questions are compulsory. Marks for the questions are shown within brackets on the right-hand side.**
* **Please answer in your own words; do not copy from the course material.**

1. Briefly discuss the Greenhouse effect on the earth. Explain how globalization is responsible for large scale disruption of ecosystems (5x2=10)
2. Distinguish between:
 - (i) Floods and droughts (5)
 - (ii) Sudden and Insidious disasters (5)
3. What is meant by North-South divide? Discuss the role of MNCs, TNCs and IFIs in economic globalisation. (2.5+7.5=10)
4. Write short notes on the following: (3.5+3.5+3=10)
 - (i) Rio +5 and Rio +10
 - (ii) Biodiversity Convention
 - (iii) UNEP
5. Mention any five multilateral agreements related to transnational air pollution. Discuss the world Bank's environmental agenda. (5+5=10)
6. Discuss briefly the environmental concerns of South Asia with special reference to Nepal. (5+5=10)
7. Define NGOs. Explain its origin and briefly discuss the different perspectives of NGOs. (2+8=10)
8. Write short notes on the following: (6x5=30)
 - (i) Chilka Bachao Andolan and Appiko Movement
 - (ii) Seed suicides in India
 - (iii) Indicators of sustainability of food security
 - (iv) Environmentally Sound Technologies
 - (v) Environmental Ethics
 - (vi) Role of judiciary in curbing air pollution