

## **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 1<sup>st</sup> January 2024 to 31<sup>st</sup> December, 2024)**

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**

**(2024)**

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:

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ENROLMENT NO.: .....

NAME : .....

ADDRESS: .....

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COURSE CODE: .....

COURSE TITLE: .....

ASSIGNMENT CODE: .....

STUDY CENTRE CODE: .....

DATE: .....

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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/2024**  
**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. Elucidate the concept of integrated environmental management. Explain its principles and process. (15)
  2. What is Environmental Ethics? Define and discuss the terms: Anthropocentrism, Ecofeminism and Ecocentrism (2+8=10)
  3. Discuss the strategies for disposal of industrial wastes in environmentally sustainable manner. (10)
  4. 'Scarcity provides the catalyst for innovation and change.' Describe by citing an example. (10)
  5. Explain the role of private sector and civil societies in environmental management. (10)
  6. Elaborate on the two paradigms of rural development. (10)
  7. Forests when managed with an ecosystem approach can cater to the diverse needs of communities. Justify this statement. (10)
  8. Write short notes on the following: (5x5=25)
    - a) Public Interest Litigations (PILs)
    - b) National Environmental Quality Standards (NEQS)
    - c) Global Environment Facility (GEF)
    - d) Agriculture after World War II
    - e) Reforestation
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**TUTOR MARKED ASSIGNMENT**  
**MED-006: Natural Resource Management: Physical and Biotic**

**Course Code: MED -006**  
**Assignment Code: MED -006/TMA/2024**  
**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) Explain the plant resources available in different regions of India. (5)  
(b) Describe the energy resources used in India. Why do we need alternatives. (5)
2. (a) What are laterites and and laterific soils? Explain. (5)  
(b) Give a brief account of soil erosion and soil degradation. (5)
3. (a) How can mind energy be harnessed? Illustrate. (5)  
(b) What are energy plantations? Give the problems involved with its. (5)
4. (a) Elaborate on the causes of air pollution. (5)  
(b) How has biodiversity been defined in different ways? What are its three different levels? (5)
5. (a) Why is measurement of species diversity important? Give different ways of its measurement. Briefly explain about species richness. (5)  
(b) Discuss the characteristic features of temperate deciduous forests. (5)
6. (a) Where is trans-Himalayas zone? Give an account of its wildlife. (5)  
(b) Explain the cultural and religious values of biodiversity. (5)
7. (a) Illustrate the following using suitable examples: (5)  
(i) Micro-organisms in medicine  
(ii) Biopesticides and bio-fertilisers  
(b) What is natural extraction of species? Give the factors causing it. (5)
8. (a) What are the main characteristics of biosphere reserves? (5)  
(b) What are seed banks? Explain their role in biodiversity conservation. (5)
9. (a) What are sacred groves? Where are these located? Give examples. (5)  
(b) How is over-abundant population managed? Discuss. (5)
10. (a) Discuss important aspects of Forest Protection act. (5)  
(b) Explain important issues in biotechnology examples. Using suitable. (5)

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**TUTOR MARKED ASSIGNMENT  
MED-007: Agriculture and Environment**

**Course Code: MED-007  
Assignment Code: MED-007/TMA/2024  
Maximum Marks: 100**

**Note:** \* **This assignment is based on the entire course.**  
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\* **Please answer in your own words; do not copy from the course material.**

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1. Describe soil erosion processes and ways and means to prevent and control soil erosion. (10)
2. Explain the various dimensions of technology transfer and the appropriate technologies for resource poor farmers. (10)
3. “Agricultural *waste* is contradiction in terms.” Comment. (10)
4. Differentiate between the following pairs: (20)
  - a) Shelter belts and Windbreaks
  - b) Agroforestry and Social forestry
  - c) Composting and Vermicomposting
  - d) Food Security and Ecological Security
5. (i) List at least four management options to manage water logged lands. (5)  
(ii) What do you understand by the term drought? Briefly describe the three strategies to mitigate drought conditions. (5)
6. (i) Explain the elements of integrated farming? (5)  
(ii) Explain organic agricultural system. (5)
7. Define alternative agriculture. Discuss the important components of alternative agriculture? (10)
8. Discuss the major socio-economic factors that influence the agricultural sector in India. (10)
9. Discuss the policy measures required to boost agricultural productivity and rural prosperity. (10)

**TUTOR MARKED ASSIGNMENT**  
**MED-008: Globalisation and Environment**

**Course Code: MED-008**  
**Assignment Code: MED-008/TMA/2024**  
**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. Briefly discuss the Greenhouse effect on the earth. Explain how globalisation is responsible for large scale disruption of ecosystems. (10)
2. Distinguish between : (5x2 = 10)
  - (i) Floods and droughts
  - (ii) Sudden and Insidious disasters
3. What is meant by North-South divide? Discuss the role of MNCs, TNCs and IFIs in economic globalisation. (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. (10)
6. Discuss briefly the environmental concerns of South Asia with special reference to Sri Lanka. (10)
7. Define NGOs. Explain its origin and briefly discuss the different perspectives of NGOs. (10)
8. Write short notes on the following: (5x6 = 30)
  - i. Chilka Bachao Andolan and Chipko Movement
  - ii. Seed Suicides in India
  - iii. Indicators of Sustainability of Food Security
  - iv. Environmentally Sound Technologies
  - v. Environmental Ethics; and
  - vi. Role of Judiciary in Curbing Air Pollution