

**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 2018 to 31<sup>st</sup> December, 2018)**

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**

**(2018)**

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 on the given address.

**There will be one assignment for each course. You have to complete the assignments in time.**

**Assignment Submission Deadlines are as follows:**

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

.....

.....

COURSE CODE: .....

COURSE TITLE: .....

ASSIGNMENT CODE: .....

STUDY CENTRE CODE: ..... DATE: .....

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PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO 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/2018**  
**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. List ten activities for mobilizing a community by facilitators. 10
  2. Elaborate the factors for setting new ethics for environment in modern times. 10
  3. Explain the concept, objectives, principles, process, and benefits of integrated environment management in South Asia. 20
  4. Define 'Environment Management System' and 'Environmental Impact Assessment' (EIA). Describe the need, principles, tools, techniques, and process of EIA. 20
  5. By citing suitable examples describe different categories of industrial wastes. Discuss the priorities for integrated management of industrial wastes. 20
  6. Deliberate upon the initiatives of five regional organisations in environmental management. 20
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**TUTOR MARKED ASSIGNMENT**  
**MED-006: Natural Resource Management: Physical and Biotic**

**Course Code: MED-006**  
**Assignment Code: MED-006/TMA/2018**  
**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) Name agro-climatic zones of India. On what basis are these zones designated? (5)  
(b) Give a brief account of wetlands and mangroves in India. (5)
2. (a) Discuss the important characteristics of desert soils. (5)  
(b) Differentiate between soil erosion and soil degradation. Describe various causes of soil erosion and soil degradation. (5)
3. (a) Discuss the origin of oil and natural gas. (5)  
(b) What are the advantages of using solar energy? How can solar energy be harnessed? (5)
4. (a) Explain various reasons of deforestation. How has it affected the environment? (5)  
(b) Describe important aspects of ecosystem diversity giving suitable examples. (5)
5. (a) Briefly discuss important features of coniferous forests and taiga. (5)  
(b) Why are oceans important? Give the reasons for the destruction of marine habitat. (5)
6. (a) Explain cultural and religious values of biodiversity giving suitable examples. (5)  
(b) Discuss the importance of biodiversity in providing plant and animal food. (5)
7. (a) How does biodiversity help in maintenance of soil, air and water quality? Explain. (5)  
(b) Explain various factors causing habitat loss. (5)
8. (a) What are the causes of extinction of species? Discuss briefly. (5)  
(b) What is species based approach of conserving biodiversity? Also give its disadvantages. (5)
9. (a) Discuss the main characteristics of biosphere reserves. (5)  
(b) Explain the social and economic strategies of conserving biodiversity. (5)
10. (a) Define buffer zones. Discuss their importance in protecting biodiversity. (5)  
(b) What is CITES? Give its important aspects. (5)

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

**Course Code: MED-007**  
**Assignment Code: MED-007/TMA/2018**  
**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) What do the terms open and closed mean in relationship to nutrient cycles? (5)  
(b) Why are agro-ecosystems relatively open with respect to nutrient cycles? (5)
  2. Explain the impact of ozone layer depletion and rising carbon dioxide on agriculture. (10)
  3. (a) What are the parameters and goals of sustainable agriculture? (5)  
(b) Discuss the approaches of sustainable agriculture. (5)
  4. What do you understand by sustainable land use? List the major challenges in implementing a sustainable land use. (10)
  5. (i) List at least four management options to manage water logged lands. (5)  
(ii) What do you understand by the terms drought? Briefly describe the three strategies to mitigate drought conditions. (5)
  6. Discuss the various energy conservation opportunities during crop production. (10)
  7. (i) Explain the elements of integrated farming? (5)  
(ii) Explain organic agricultural system. (5)
  8. Discuss the major socio-economic factors that influence the agricultural sector in a developing country. (10)
  9. What do you understand by ecological security? Outline the factors that threaten ecological security. (10)
  10. Define alternative agriculture. Discuss the important components of alternative agriculture? (10)
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**TUTOR MARKED ASSIGNMENT**  
**MED-008: Globalisation and Environment**

**Course Code: MED-008**  
**Assignment Code: MED-008/TMA/2018**  
**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. What is the meant by biodiversity? Explain the ethical, economic and cultural and political arguments in support of protecting the biodiversity? (5+15= 20)
  2. Briefly explain the indicators of food security. Explain how economic reforms impacted food security? (10+10= 20)
  3. How water management was affected Balochistan in Pakistan after globalization and development? (10)
  4. Write Short notes on the following: (5x4= 20)
    - a) Volcanoes
    - b) Sri Lankan response to Environmental Concerns
    - c) Seed suicides in India
    - d) Environmental Accounting
  5. Explain Briefly:
    - a) Structure of United Nations (10)
    - b) Global Warming and Ozone Depletion (5+5=10) (5+5=10)
    - c) Rio Declaration on Environment and Development (10)