

**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 2019 to 31<sup>st</sup> December, 2019)**

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**

**(2019)**

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/with held. 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 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/2019**  
**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. Compare the modernization and holistic development paradigms of rural development. 10
2. Briefly describe the following tools and techniques used in Environmental Impact Assessment (EIA): matrices, check-lists, network diagrams, overlays, and mathematical modelling. 10
3. With the help of a clear diagram explain the mutually supporting dimensions of an integrated coastal area management system. 20
4. Describe the priorities for effective management of hazardous and non-hazardous industrial solid wastes. 20
5. Make a clear flow chart of cost benefit analysis. Write its criticisms and complications. 20
6. Discuss the various institutional arrangements for monitoring and enforcement regarding integrated management of environment in India. 20

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

**Course Code: MED-006**  
**Assignment Code: MED-006/TMA/2019**  
**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 are different physiogeographic regions of India? Show them on the map of India. (5)  
b) What are fertile soils? Give their main types, occurrence and importance in India. (5)
  2. (a) Briefly explain various types of land resources. Why are they important? (5)  
b) Differentiate between confined and unconfined aquifers giving suitable diagrams. (5)
  3. (a) Why is renewable biomass a versatile fuel? Explain. (5)  
b) Discuss the abundance and distribution of mineral resources of India (5)
  4. (a) What is soil erosion? Briefly explain various factors which cause soil erosion. (5)  
b) Briefly describe various processes which are used to measure genetic diversity. (5)
  5. (a) Explain important features of tropical rain forests. (5)  
b) What is the Gangetic plain? Briefly explain its main features and wildlife. (5)
  6. (a) What is meant by the extractive use of biodiversity? How is it different from the non-extractive use value of biodiversity ? (5)  
b) How does biodiversity contribute to the development? Explain. (5)
  7. (a) Describe the importance of wood and explain its types. (5)  
b) How has hunting affected the loss of biodiversity ? Explain. (5)
  8. (a) What are wetlands? When is a wetland considered as important? (5)  
b) Discuss the role of botanical gardens in conserving the biodiversity. Give names and locations of important botanical gardens of India. (5)
  9. (a) What is ecotourism? How is the sustainable ecotourism important? (5)  
b) How can human – elephant conflicts be addressed? Briefly explain the strategies which can be used. (5)
  10. (a) Discuss the need of legislation for the conservation of biodiversity. (5)  
b) Briefly explain important aspects of Bonn Convention. (5)

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

**Course Code: MED-007  
Assignment Code: MED-007/TMA/2019  
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 Integrated Pest management (IPM)? Discuss the cultural and biological control methods adopted in IPM. (20)
  2. Discuss the effects of climate change on agriculture and vice-a-versa. (20)
  3. Define sustainable agriculture. Do IPM and sustainable agriculture share common goals? (10)
  4. What do you understand by sustainable land use? List the major challenges in implementation of 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 term drought? Briefly describe the three strategies to mitigate drought conditions. (5)
  6. Discuss the various energy conservation measures that can be used during crop production. (10)
  7. Discuss the major socio-economic factors that influence the agricultural sector in India. (10)
  8. Define ecological security? Discuss the factors that threaten ecological security. (10)
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**TUTOR MARKED ASSIGNMENT**  
**MED-008: Globalisation and Environment**

**Course Code: MED-008**  
**Assignment Code: MED-008/TMA/2019**  
**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. Classify man-made disasters? Explain the direct and indirect impact of war on people and environment. (10+10= 20)
2. What are the obstacles for an effective UN role regarding environment. Explain. (20)
3. What are the characteristics of Environmentally Sound Technologies? Explain the factors influencing their adoption. (20)
4. Write Short notes on the following: (10x4= 40)
  - a) Toxic Wastes
  - b) Environmental laws and their implications in South Asia
  - c) World Bank and the environment
  - d) Environmental ethics