

**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 2017 to 31st December, 2017)

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**

(2017)

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:

ENROLMENT NO.:

NAME :

ADDRESS:

.....

.....

COURSE CODE:

COURSE TITLE:

ASSIGNMENT CODE:

STUDY CENTRE CODE: DATE:

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/2017
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. With the help of clear and labelled diagrams explain the characteristic features, requisite conditions and principles for *sustainable development*. (20)
 2. Prepare an illustrated account on *sustainable agriculture* under the following heads: elements, goals and promotion strategies. (20)
 3. Critically examine the concept and principles of *Environmental Justice*. (20)
 4. Describe the different *components of legal framework* that can be employed in the integrated management of environment. (20)
 5. 'Scarcity provides the catalyst for innovation and change.' Explain by citing an example. (10)
 6. Write a brief account on the contributions of one institution each at global, regional, national and local level in environmental management. (10)
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TUTOR MARKED ASSIGNMENT
MED-006: Natural Resource Management: Physical and Biotic

Course Code: MED-006
Assignment Code: MED-006/TMA/2017
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. (a) Explain various types of fertile soils in the Indian context. (5)
(b) Give a brief account of major rivers of India. (5)
2. (a) List the adverse effects of soil salinity and alkalinity. (5)
(b) Describe water resources and problems associated with them in the Indian scenario. (5)
3. (a) Discuss the importance of solar energy giving its advantages. (5)
(b) What is rock cycle? Briefly explain three types of rocks. (5)
4. (a) List various strategies which can be used to conserve water. (5)
(b) What is species richness? Briefly explain its various types. (5)
5. (a) Discuss important features of Tundra biome. (5)
(b) Describe various zones of a lake biome. (5)
6. (a) Explain the extractive use of biodiversity. (5)
(b) Illustrate how biodiversity provides raw materials for industry. (5)
7. (a) How has hunting and export of certain animals caused biodiversity loss? Explain. (5)
(b) Explain the terms 'endangered species' and 'rare species' using suitable examples. (5)
8. (a) Discuss various types of protected areas using IUCN classification. (5)
(b) Describe in-situ conservation of biodiversity conservation. (5)
9. (a) What is ecotourism? How does it differ from nature-based travel? (5)
(b) Explain various methods of management of over-abundant population. (5)
10. (a) Discuss the important features of Ramsar Convention. (5)
(b) Describe salient features of 'Forest Protection Act'. (5)

TUTOR MARKED ASSIGNMENT
MED-007: Agriculture and Environment

Course Code: MED-007
Assignment Code: MED-007/TMA/2017
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. Give brief answers to the following : (10)
 - (a) What is the importance of geographic information system (GIS) in agriculture?
 - (b) Explain the basic composition of soil organic matter. Name any two factors responsible for depletion of organic content in soil.
 - (c) What is agro-processing? List any two methods of agro-processing.
 - (d) List any four factors influencing watershed operations.
 - (e) Define dry farming. Name two types of ponds constructed to store water.
2. “Agricultural *waste* is contradiction in terms.” Comment. (10)
3. (a) Define sustainable agriculture. Describe different measures for achieving sustainability in agriculture. (5)
(b) What are off-farm inputs in agriculture and how these affect air quality? (5)
4. Discuss the effects of climate change on agriculture. (10)
5. In your opinion, what are the major issues involved in the implementation of IPM? How can different components of IPM be integrated for its effective implementation? (10)
6. 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
7. What is alternate agriculture? Discuss briefly the products of honey bees and lac insect. (10)
8. Explain the need for institutional capacity building in support of agriculture. Discuss the importance of people’s participation in agriculture related activities and programmes. (6+4)
9. Outline the measures the respective governments can take to accelerate the growth of agricultural sector in the South Asian countries. (10)

TUTOR MARKED ASSIGNMENT
MED-008: Globalisation and Environment

Course Code: MED-008
Assignment Code: MED-008/TMA/2017
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. How is globalisation related to large scale disruption of ecosystem? Describe some of the environmental initiatives taken at global scale to reverse the adverse effects on environment. (20)
 2. Explain the difference between natural and anthropogenic disasters. Describe briefly any 2 examples of natural and anthropogenic disasters. (6+7+7= 20)
 3. Explain briefly the general principles of international environmental law. Highlight the role of United Nations and Bretton Woods Institutions with regard to global environmental management. (7+6+7= 20)
 4. Describe in brief the environmental concerns of South-Asian countries. Discuss the response of countries like Bangladesh and India to environmental concerns. (10+10=20)
 5. Distinguish between NGO's and people's initiatives related to conservation of environment. Discuss in brief Narmada Bachao Andolan and Chipco movement. (2+4+4= 10)
 6. Write short notes on the following: (2.5 x 4=10)
 - (a) Conservation of biodiversity
 - (b) Economic reforms and food security
 - (c) Environmental Impact Assessment
 - (d) Green business
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