

**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-001

MED-002

MED-003 (Earlier MED-009)

MED-004



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

(2017)

Dear Student,

This booklet contains the assignments for MED-001, MED-002, MED-003 and MED-004. 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:

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.
2. Leave at least 4 cm margin on the left, top and bottom of your answer sheet for the evaluator's comments.
3. Your answers should be brief, precise and in your own words. **Please do not copy the answers from the study material.**
4. Serious action will be taken if you copy the Assignment Response from any other student.
5. 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-001: Understanding the Environment

Course Code: MED-001
Assignment Code: MED-001/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 the terms environment, biosphere, and ecosystem. Write in not more than 300 words why we should be concerned about our environment. (10)
- b) List the 5 major extinctions periods that took place on Earth. Explain the possible reasons for each. (10)
2. Discuss the following : (10)
 - i) Importance of soil microbes
 - ii) Thermal stratification in the atmosphere
 - iii) El-nino phenomenon
 - iv) Global disposition of solar radiation
3. Describe the hydrological cycle with suitable diagrams. How is it affected by deforestation? (10)
4. a) Explain the following movements of water in the oceans : (10)
 - i) Waves
 - ii) Currents
 - iii) Upwellings
 - iv) Tides
5. Define the following : (10)
 - i) Gross productivity
 - ii) Secondary productivity
 - iii) Ecosystem resistance
 - iv) Species dominance
 - v) Noise pollution
6. Discuss the different types of heterotrophic nutrition in animals using appropriate examples. (10)
7. Explain the following terms using one example in each case : (20)
 - i) Neuston
 - ii) Supplementary food chain
 - iii) Plankton
 - iv) Pyramid of energy
 - v) Bioaccumulation

- vi) Non renewable resources
 - vii) Water quality parameters
 - viii) Secondary air pollutants
 - ix) Age pyramids
 - x) Pelagic organisms
8. a) What are the general features of a nutrient cycle? (3+6+1=10)
- b) Draw a diagram to show the various stages in the global cycling of phosphorus.
- c) What is the largest source of phosphorus?
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TUTOR MARKED ASSIGNMENT
MED-002: Sustainable Development: Issues and Challenges

Course Code: MED-002
Assignment Code: MED-002/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. What are the major issues and challenges which confront sustainable development? (10)
 2. Discuss by giving examples how gender disparity can hamper environment protection and sustainable development. (20)
 3. Explain the Environmental Legislation and its implementation in India. (10)
 4. Explain the various civil society initiatives for the protection of environment and sustainable development. (10)
 5. Discuss various global issues related to environment. Assess the initiatives taken towards environmental protection to achieve sustainable development. (20)
 6. Explain the institutional mechanisms exist in the South Asian Region for achieving Sustainable Development. (10)
 7. Explain the following in about 250 words each: (4x5=20)
 - a) Social consequences of deforestation.
 - b) Life Style and Consumerism.
 - c) Desertification and Droughts.
 - d) Deep Ecology and Eco-Feminism
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**TUTOR MARKED ASSIGNMENT
MED-003: Energy and Environment**

**Course Code: MED-003
Assignment Code: MED-003/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. Discuss the relationship between the population growth rate and energy consumption. (10)
2. Discuss the issues relating climate change, global warming and deforestation in perspective of energy. (10)
3. What do you understand by home energy audit? Explain the different aspects of conservation of energy in homes. (10+10=20)
4. Discuss the environmental issues of hydropower. (10)
5. Discuss the economic approaches to the energy problem. (10)
6. Explain how electricity is produced in coal-based thermal power plants and in nuclear power plants. (10)
7. How do policy measures adopted by government affect energy used by a country? (10)
8. Write short notes on the following: (4x5=20)
 - a) Wind Energy
 - b) Demand and supply of energy
 - c) Solar Photovoltaic Technology
 - d) Clean Development Mechanism

TUTOR MARKED ASSIGNMENT
MED-004: Towards Participatory Management

Course Code: MED-004
Assignment Code: MED-004/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. What is the process of community development? Which are the two forces from which it has evolved? Who are the stakeholders in this connection? (3+4+3)
2. What are the disadvantages of a community not getting organized? Discuss the threats to community organization briefly. (5+5)
3. What was unique in the approach of Orangi Pilot Project (OPP)? What were the finest achievements of OPP? (5+5)
4. In field practice, what are the common and serious errors of practice and ethics? (10)
5. What are the different ways of downstream participation within an organisation? Compare it with the 'upstreaming' referred by UNDP. (5+5)
6. What are the models of youth in development work? Briefly discuss the applications of Freire's ideas to youth in development work. (5+5)
7. Mention any five important milestones of SACEP. What are the future projects of SACEP? (5+5)
8. What is participatory forestry? Briefly discuss JFM in India and explain how participatory management can affect the life of people residing at the periphery of forest area. (10)
9. What are the remedial measures to the threats to mangroves in India? (10)
10. Discuss the ways in which irrigation can impact on poverty. How would PIM help in reducing poverty related to irrigation? (5+5)