

**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 2022 to 31st December, 2022)

Tutor Marked Assignments (TMA) for

MED-001

MED-002

MED-003

MED-004



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

(2022)

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 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:

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/2022
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. Describe the human activities in your own surrounding that affect the carrying capacity of earth. List the measures to increase the carrying capacity? and describe any one measure of your choice. (10)
2. a) Differentiate between a food chain and a food web? Describe the different types of food chains with examples and diagrams. (5)
b) List the various types biomes. What are the factors that lead to their formation? What are the major threats to each of them? (5)
3. a) What makes the biosphere as the Earth's integrated life supporting system? (5)
b) The disproportionate growth of human population and attitude has a direct bearing on the availability of natural resources. Explain. (5)
4. a) Discuss various human activities which affect the hydrological cycle? (5)
b) Describe the main factors that affect population size. (5)
5. What are biogeochemical cycles? Explaining the general features describe the nitrogen cycle using a neat diagram. (10)
6. a) Suggest how a scheme of 'zero garbage generation' in a city based on the principle of Reduce, Reuse and Recycle can be made successful. (5)
b) What is land degradation? What are its major causes? (5)
7. Answer the following in approximately 300 words:
a) Concept of Harness Technology in Sustainable Development. (5)
b) Environmental impact of industrialisation. (5)
8. Define a community in an ecosystem. How do species interactions maintain a community's structure? Explain with help of a suitable example. (10)
9. Write briefly about the following in not more than 250 words: (4x5=20)
a) Eutrophication
b) Tectonic estuaries
c) Primary and secondary air pollutants
d) Biomagnification

TUTOR MARKED ASSIGNMENT
MED-002: Sustainable Development: Issues and Challenges

Course Code: MED-002
Assignment Code: MED-002/TMA/2022
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. Explain major issues and challenges which confront sustainable development? (10)
Elucidate your answer with suitable examples.
2. Discuss the disadvantages of unsustainable development in industrialization? (10)
Describe methods to overcome them.
3. Differentiate between inter-generational and intra-generational equity and justice (10)
with suitable examples. Discuss by giving examples how gender disparity can hamper environment protection and sustainable development.
4. How can sustainable use of natural resources help achieve sustainable development? (10)
5. Discuss various regional issues related to environment. Assess the initiatives (10)
taken towards environmental protection to achieve sustainable development.
6. Describe various state and local development initiatives to address the inequality. (10)
Substantiate your answer with suitable examples.
7. Explain the following in about 250 words each: (5x4=20)
 - (a) Community-based Civil Society Initiatives on Sustainable Development.
 - (b) Integration of Scientific and Traditional Knowledge for Sustainable Development.
 - (c) Sustainable Agriculture Practices.
 - (d) Innovative Practices in Sustainable Development of Water and Energy Resources.
8. Explain the following in about 250 words each: (5x4=20)
 - (a) Cooperatives and Sustainable Development
 - (b) Sustained Livelihood
 - (c) Initiatives of the South Asian Countries towards the betterment of the environment.
 - (d) Sustainable and non-sustainable activities

TUTOR MARKED ASSIGNMENT
MED-003: Energy and Environment

Course Code: MED-003
Assignment Code: MED-003/TMA/2022
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 all answer in your own words; do not copy from the course material.
* Detailed answer is required for question numbers 1 to 7 not exceeding 500 words.

1. Describe the production technologies used to process wind energy. (10)
2. Analyze the use of energy in relation to sustainability. (10)
3. Discuss the factors that need to be considered in energy economics. (10)
4. Elaborate on “Cleaning-Up” of fossil and nuclear technologies. (10)
5. Explain the working of small hydropower plant. (10)
6. Discuss the principle underlying solar thermal technologies. (10)
7. Elaborate on Power to the people: A Ten-Point agenda for change. (10)
8. Write short notes on the following (not exceeding 200 words):
 - a) Biomass potential and its advantages (5)
 - b) Benefits of Demand Side Management (5)
 - c) Non-hydro renewable energy resources (5)
 - d) Limitations of Clean Development Mechanism (5)
 - e) Radioactive waste (5)
 - f) Energy end use in commercial sector (5)

TUTOR MARKED ASSIGNMENT
MED-004: Towards Participatory Management

Course Code: MED-004
Assignment Code: MED-004/TMA/2022
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. How does PRA serve as the tools for participatory management? With an example of a successful participatory management show how are they used in the development of participatory projects. (10)
 2. Explain good governance along with its any six characteristics. (10)
 3. What are the aims, mission and functions of SACEP? Give its organizational arrangement also. (10)
 4. With the help of a successful example of a women's movement in protecting the environment discuss the role of women in environment and development. (10)
 5. In field practice, what are the common and serious errors of practice and ethics? (10)
 6. What are the different ways of downstream participation within an organisation? Compare it with the 'upstreaming' referred by UNDP. (10)
 7. Describe how the model "Reversals in Learning" help farmers in sustainable and equitable development. (10)
 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. How can the threats to mangroves in India be tackled with the help of certain measures? Discuss. (10)
 10. Discuss the ways in which irrigation can impact on poverty. How would PIM help in reducing poverty related to irrigation? (10)
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