

**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 2020 to 31st December, 2020)

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**

(2020)

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/2020
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) Discuss the importance of environment in our life. (5)
b) Discuss why we should be concerned about the state of our environment by giving proper example. (5)
2. What are the four basic characteristics common to any ecosystem? Explain characteristics tropical forest ecosystem. (4+6=10)
3. a) What does one infer from each of the different types of ecological pyramids? (6)
b) How does energy flow through an ecosystem? Explain with a suitable diagram. (4)
4. Draw the nitrogen cycle of nature. Describe briefly each stage and explain why nitrogen cycle is particularly important for living organisms. How is it affected by human activity in the present times? (10)
5. a) Briefly explain the major types of human induced environmental degradation. (3)
b) Analyse the causes of any one type of environmental degradation. (4)
c) What remedies would you suggest for solid waste management? (3)
6. a) Write four characteristics of pioneer species. (3)
b) Describe three abiotic characteristic of estuaries, (4)
c) Why does a young plantation have a high NPP/GPP ratio as compared to a mature tropical forest? (3)
7. Explain the difference between the following terms giving an example of each: (5×4=20)
a) Estuarine and marine habitats
b) Primary and secondary air pollutants
c) Symbiotic and mutualistic organisms
d) Temperate and tropical rainforests
8. Answer the following questions in not more than 150-200 words. (5×4=20)
a) How do human activities affect the hydrological cycle?
b) Why are coral reefs considered to be important yet fragile ecosystems?
c) Why grasslands have nutrient rich soil while rainforest soils low in nutrient content?
d) Give reasons why does an area in a rain shadow often become a Desert.

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

Course Code: MED-002

Assignment Code: MED-002/TMA/2020

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. “Sustainable Development is a desired direction of change and provides a framework to decide developmental actions by nations, communities and individual” Justify the statement by giving suitable arguments. (10)
2. Critically analyse strengths and weaknesses of various approaches to sustainable development. (10)
3. Explain major issues and challenges which confront sustainable development? (10)
4. Describe how traditional knowledge and modern scientific knowledge can be integrated to achieve sustainable development. (10)
5. “We discharge our roles following a particular lifestyle that may not be compatible with sustainable development” Justify the statement with suitable examples from our daily life. (10)
6. Explain the Environmental Legislation and its implementation in India. (10)
7. Explain the various civil society initiatives for the protection of environment and sustainable development. (10)
8. Discuss the disadvantages of unsustainable development in industrialization? Describe ways to overcome them. (10)
9. Explain the following in about 250 words each: (5x4=20)
 - a) Cooperatives and Sustainable Development
 - b) Role of North-South divides in global environmental issues.
 - c) Concept of Harness Technology in Sustainable Development.
 - d) Innovative Practices in agriculture.

**TUTOR MARKED ASSIGNMENT
MED-003: Energy and Environment**

**Course Code: MED-003
Assignment Code: MED-003/TMA/2020
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 how the carrying capacity of the Earth can be estimated using various parameters. (10)
2. Discuss the role of various stakeholders in the energy planning process. (10)
3. Explain the principle underlying Solar Photovoltaic Technologies. (10)
4. What is home energy audit? Discuss the different aspects of conservation of energy in homes. (10)
5. (a) Discuss how energy efficiency can be improved in the transport sector. (5)
(b) List the main features of an energy efficient building. (5)
6. (a) Discuss the key concerns for a sustainable energy policy in India. (5)
(b) List the measures that need to be taken in order to meet the goals of India's energy policy. (5)
7. (a) Discuss the energy production technologies for biomass energy. (5)
(b) Explain the basic principle of electricity generation underlying the nuclear power plant. (5)
6. Write short notes on the following: (6x5=30)
 - (a) Clean Development Mechanism (CDM)
 - (b) Fuel Switching
 - (c) Limitations of Small Hydropower
 - (d) Wind Energy
 - (e) Carbon Sequestration
 - (f) No-regrets Policy

TUTOR MARKED ASSIGNMENT
MED-004: Towards Participatory Management

Course Code: MED-004
Assignment Code: MED-004/TMA/2020
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 philosophy of the participatory approach. Discuss how participation can be perceived as a process of consultation. (10)
2. a) When was the Community Development (CD) Programme launched in Bangladesh? In these on what was much emphasis laid on? (5)
b) What are the various problems of departmental approach as in Pakistan's development? Give any two important features of the Agha Khan Rural Support Programme (AKRSP). (5)
3. a) With reference to South Asia discuss the three basic models involved in the organizational model of participatory management. (5)
b) Discuss the ways the community organisation may become ineffective to its members. How it may be cured? (5)
4. a) Which are the major areas in which women can participate in the local water supply? How it would be helpful for the system? (5)
b) Why the traditional methods of teaching have been not been suitable for adult women learners? What have been found to solve this problem? (5)
5. a) Discuss the model of strategic change with reference to organizational change. (5)
b) The following statement was made by a Chipko movement activist: "...The women's and ecology movements are therefore one, and are primarily counter-trends to a patriarchal maldevelopment." What is your opinion on the above comment? (5)
6. How can professionalism be developed in youth in development work? (10)
7. Discuss the various functions of SACEP. (10)
8. How the infrastructure, industry and fields of energy in Himalayas need to be relooked for sustainable mountain development? (10)
9. What are the characteristics of coastal zones? (10)
10. What are the steps that should be taken to manage the wetlands? (10)