

**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 2021 to 31st December, 2021)

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**

(2021)

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/2021
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 Write brief answers for the following questions: (2½×4=10)
- i) Distinguish between natural and man-made environment, also provide an example of each.
 - ii) Define the terms 'bioaccumulation' and 'ecosystem'.
 - iii) Discuss the impacts of deforestation on the environment.
 - iv) Explain with any two adaptations that help the zooplanktons to escape from predators.
- 2 a) Describe the properties of soil that affect its productivity. (5+5=10)
b) Write an account on the structure and life in coral reefs.
- 3 a) What does one infer from each of the different types of ecological pyramids? (6)
(4)
b) Explain the reasons that mostly there are four vertical links in a typical food chain.
- 4 a) List any four major sources of groundwater pollution? (4)
b) Why is it important to contain our population growth? (3)
c) Write two peculiar features of an ecotone community. (3)
- 5 What makes the biosphere as the Earth's integrated life supporting system? (10)
- 6 Make a clear and labelled diagram of the carbon cycle **OR** nitrogen cycle. (10)
- 7 Why do the biomes not form continuous belts around the world? Explain with the help of appropriate examples and diagrams. (10)
- 8 With the help of a diagram explain the flow of energy in an ecosystem; also state the laws that govern the process of flow of energy. (10)
- 9 a) Why is the 3 'R's strategy of management of household wastes considered being highly effective? (5+5=10)
b) List the major freshwater habitats of the world. Write a characteristic feature of each.
- 10 Write briefly about the following in not more than 250 words: (2½×4=10)
- i) Non-biodegradable pollutants
 - ii) Global warming and its consequences
 - iii) Eutrophication
 - iv) Oil spills

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

Course Code: MED-002
Assignment Code: MED-002/TMA/2021
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. List four sustainable and unsustainable activities along with justification. (10)
2. Critically analyse strengths and weaknesses of various approaches to sustainable development. (5+5=10)
3. What is carrying capacity? Explain how equality of women is related to sustainable development? (10)
4. Explain the key governance issues to change the rules and power structure towards a positive and sustainable livelihood. (5+5=10)
5. Discuss the failures of economic development of developing countries. What are the initiatives taken to bridge the North-South divide? (10)
6. Explain the environmental legislation and its implementation in India. (10)
7. Explain the following in about 300 words each: (5x4=20)
 - (a) Civil Society Initiatives on Sustainable Development.
 - (b) Life Style and Consumerism as a challenge to sustainable development.
 - (c) Poverty and Sustainable Development.
 - (d) Innovative practices in sustainable development of water and energy resources.
8. Explain the following in about 300 words each: (5x4=20)
 - (a) Cooperatives and Sustainable Development.
 - (b) Road blocks to global initiatives.
 - (c) Regional initiative for environmental protection.
 - (d) Community knowledge in Sustainable Development.

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

**Course Code: MED-003
Assignment Code: MED-003/TMA/2021
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. Discuss the demand for energy due to population growth and industrialization. (10)
 2. Discuss the factors that need to be kept in view while formulating the energy policy. (10)
 3. Discuss the issues and challenges of rural energy planning in India. (10)
 4. Describe the process of extracting crude oil in an oil well and refining it in petroleum refineries. (10)
 5. a) Outline the major aims and benefits of energy planning. (5)
b) Highlight a few measures that can be used to save energy in the commercial sector in India. (5)
 6. a) What do you understand by carbon sequestration? (5)
b) Discuss the advantages and limitations of Clean Development Mechanism (CDM). (5)
 7. a) Describe the applications of solar photovoltaics. (5)
b) Describe the working of a biogas plant. (5)
 8. Write short notes on the following (300 words): (6x5=30)
 - a) Deforestation and the Global Carbon Cycle
 - b) Working of Wind Energy systems
 - c) Energy efficiency in buildings
 - d) Taxation of Carbon
 - e) Tidal Energy
 - f) The Rebound Effect
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TUTOR MARKED ASSIGNMENT
MED-004: Towards Participatory Management

Course Code: MED-004
Assignment Code: MED-004/TMA/2021
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 are the constraints of community participation and mobilization? Can you suggest any solutions to community participation? (10)
2. a) What were the reforms (political and administrative) introduced by the British Government? In this context what was the special contribution of Lord Ripon? (2X5=10)
b) Where from financial arrangements for community organization could be done for rural development of Pakistan?
3. a) Explain the Neo Liberal Model of participatory management of South Asia. (2x5=10)
b) Explain the process and sharing of experience in Participatory Rural Appraisal (PRA).
4. Discuss about the staff of Orangi Pilot Project (OPP). How they have been provided with capacity building and training? (5+5=10)
5. a) What are the practical ways by which rural development tourism can be improved? (2X5=10)
b) What are the various approaches to change in an organization?
6. a) Discuss the gender approaches to environment. (2X5=10)
b) What are the skills that youth workers need in an advocacy model?
7. a) What are the sub units of the organizational arrangement of SACEP? Discuss any one of them. (5)
b) What are challenges of social forestry? (5)
8. How urbanization is affecting the mountains of South Asia? How tourism can be determined there so that the mountain ecosystem is not disturbed to a great extent? (10)
9. Discuss the successful case study of the coastal saline region of western India related to the participatory coastal resource management. (10)
10. a) What are the problems in irrigation management? (5)
b) What are the lessons learnt from Sukhomajri-Water shed management project? (5)