

ASSIGNMENT BOOKLET-2

2

**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-005

MED-006

MED-007

MED-008



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

(2022)

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 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:

.....

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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/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. Elaborate on the constraints on policy making. (10)
2. Discuss the role of technology in making a sustainable future possible. (10)
3. Explain cost-benefit analysis with suitable examples. (10)
4. Describe the role of individual in environment protection. (10)
5. Discuss the integrated management practices to manage water resources effectively. (10)
6. What are the challenges in urban environment management? Suggest the measures needed to improve urban environment. (10)
7. Elaborate on the two paradigms of rural development. (10)
8. Write short notes on the following (not exceeding 200 words):
 - a) Waste management policy (5)
 - b) Community mobilisation (5)
 - c) Environmental equity (5)
 - d) Environmental auditing (5)
 - e) Community forestry (5)
 - f) Environmental law (5)

TUTOR MARKED ASSIGNMENT
MED-006: Natural Resource Management: Physical and Biotic

Course Code: MED -006
Assignment Code: MED -006/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. (a) Differentiate between the following giving suitable examples: (5)
(i) Abiotic resources and biotic resources
(ii) Renewable and non-renewable resources
(b) Give a brief account of rivers of India which constitute the major water resources. (5)
2. (a) Giving suitable diagram, describe various horizons of soil profile. (5)
(b) Describe the characteristics of alkali soils. What are the harmful effects of alkalinity? (5)
3. (a) List the advantages of using solar energy. Give its important applications in daily life. (5)
(b) How can solid biomass be used meaningfully as a bio fuel? Explain. (5)
4. (a) Explain the process of soil erosion. Briefly discuss the factors causing the soil erosion. (5)
(b) Why is measurement of species diversity important? How is species richness expressed? Briefly explain. (5)
5. (a) Discuss the salient features of grasslands as the terrestrial biomes of the world. (5)
(b) Where is the Indian Desert zone located? Give a brief account of the wildlife of the Indian desert. (5)
6. (a) Explain 'consumptive use values' and 'productive use values' of biodiversity giving suitable examples. (5)
(b) Using suitable examples, discuss how does biodiversity provides raw materials for industries. (5)
7. (a) What are fragile habitats? Which human activities are responsible for habitat loss? (5)
(b) Describe the major causes of biodiversity loss in Asia. (5)
8. (a) What is habitat-based approach of conserving biodiversity? Discuss its advantages and drawbacks. (5)
(b) What is Project Elephant? Discuss main activities and objectives of this project. (5)
9. (a) Why are botanical gardens important? Briefly describe about the botanical gardens of India and their role. (5)
(b) 'Economic incentives can make biodiversity an asset rather than a liability'. Justify this statement. (5)
10. (a) What is an invasive species? How can such a species be a threat to the loss of global biodiversity? Illustrate with examples. (5)
(b) Describe Ramsar convention and its obligations. (5)

TUTOR MARKED ASSIGNMENT
MED-007: Agriculture and Environment

Course Code: MED-007
Assignment Code: MED-007/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. What do you understand by sustainability? What are the parameters and goals of sustainable agriculture? (10)
 2. a) Explain the basic principles of land use. What impact would superiority of demand have on our land use pattern? (5)
(a) List five management options to manage water logged lands. (5)
 3. What are off-farm inputs in agriculture, and why are they called off-farm inputs? Describe the various ways in which off-farm inputs affect air quality. (10)
 4. Why is scheduling of irrigation important from the point of economic and environmental consequences? Discuss the importance of land management practices in dry land farming. (10)
 5. (a) How do organic farmers fertilize their crops? How do they control crop pests and weeds? (5)
(b) What is biological control? Why is it an important component of IPM? (5)
 6. Discuss the major socio-economic factors that influence the agricultural sector in a developing country? (10)
 7. Discuss the social, economic, cultural and environmental aspects of the issue of food security. (10)
 8. (a) What are GM crops? How are they useful in avoidance of biotic and abiotic stresses in crop plants? (5)
(b) How do post-harvest technologies differ for storage of food grains and fruits and vegetables? (5)
 9. What alternative measures could be taken to avoid burning of crop residues? What are the possible options for managing crop residues in the present scenario? (10)
 10. Write a note on aquaculture and poultry. How will you integrate these two enterprises in alternative agriculture? (10)

TUTOR MARKED ASSIGNMENT
MED-008: Globalisation and Environment

Course Code: MED-008
Assignment Code: MED-008/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. Explain the effects of global warming on global climate change. (5)
 2. Define flood. List at least four factors that cause flood. (5)
 3. Distinguish between Sudden Disasters and Insidious disasters. Give an example for each of them. (5)
 4. Discuss the role of MNCs and TNCs in economic globalisation. (5)
 5. What is Global Environment Facility? Mention its four areas of operation. (5)
 6. Explain any four general principles of International Environmental Law. (5)
 7. Explain how environment is an important agenda of World Bank. (5)
 8. List any five multilateral initiatives on biodiversity. (5)
 9. Discuss in general the environmental concerns of South Asia. (5)
 10. Discuss the various initiatives taken in India to protect the wildlife of India. (5)
 11. Discuss the instances when NGO's have conflicted socio-political movements. (5)
 12. Discuss the main highlights of Chilka Bachao Andolan. (5)
 13. Explain the controversy related to seed suicides by poor Indian farmers. (5)
 14. What is meant by 'Carrying Capacity' of ecosystems? Mention few facts related to the threat on biodiversity. (5)
 15. What are sustainable food security indicators? (5)
 16. What are micronutrients? Describe any disease related to deficiency of a micronutrient. (5)
 17. List five characteristics of Environmentally Sound Technologies (EST). (5)
 18. What is the concept behind 'Green Business'? (5)
 19. Refer to two instances during which Indian Judiciary has played a positive role in protecting the environment. (5)
 20. "Right to clean environment is an inalienable part of human right". Explain the statement. (5)