

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 2021 to 31st December, 2021)

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**

(2021)

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:

.....

.....

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/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.**

1. Describe in brief the requisite conditions for sustainable development with examples. (5)
2. Explain the challenges of providing clean drinking water in rural areas with examples. (5)
3. What are the three components of an urban environment? Under each category describe the resources and processes that influence the urban environment. (10)
4. Answer the following questions in about 300 words
 - a) State the three categories of environmental equity issues. (5)
 - b) Give the full form of the following UN agencies: UNEP, CSD, GEF, and IMO. Which of the above agencies monitors transboundary movement of hazardous wastes? (5)
 - c) Manufacturing technology converts inputs of energy and raw materials into products and wastes. Draw two diagrams: i) for the conventional method of manufacturing and ii) that integrates recycling. (5)
 - d) What were the main concerns of the Public Interest Litigation (PIL) filed in the Taj Mahal case? Mention the changes in the surrounding industries brought about as a result of this PIL. (5)
5. Describe the characteristic elements of an Environmental Management System (EMS). Briefly describe any two management tools for an EMS. (10)
6. State the good management practices of a community forestry programme. What specific help can the Forestry Departments provide to the community in the implementation of these practices? (10)
7. Describe the steps for involving the male and female communities in integrated environmental management. (5)
8. Briefly describe the detrimental effects of introducing high yielding varieties of seeds and the related agricultural practices. (5)
9. Discuss the contributions which technology can make towards sustainable development. Illustrate your answer by taking energy as an example. (10)
10. How does the government ensure compliance to environmental legislations and regulations? (5)
11. "The economic benefits from aquaculture are directly dependent on the state of the environment". Justify the statement in about 300 words. (5)
12. Write short notes in about 300 words on the following: (5x2=10)
 - a) Environmental Cost-Benefit Analysis
 - b) Role of private sector and civil society in environmental management

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

Course Code: MED -006
Assignment Code: MED -006/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.**

1. (a) What are minerals? Give examples of some metallic minerals and non-metallic minerals. Explain the geographic distribution of various mineral resources in India. (5)
- (b) Explain the importance of wetlands and mangroves. Give examples of wetlands and mangroves of India. (5)
2. (a) What are laterites and lateritic soils? Give their location and characteristic features. (5)
- (b) Explain the contour farming and terracing used for soil conservation. (5)
3. (a) Briefly discuss various types of fossil fuels. (5)
- (b) What is the principle of hydropower? Give the status of hydropower in India. (5)
4. (a) What are the causes and effects of deforestation? Explain. (5)
- (b) What is fundamental currency of diversity? Explain its features and importance. (5)
5. (a) Differentiate between alpha richness and alpha diversity. What are the characteristic patterns of alpha diversity? (5)
- (b) Explain the zonation in the lake biome using a suitable diagram. (5)
6. (a) Why is the wildlife of desert zone peculiar? Explain using examples of Indian desert. (5)
- (b) Discuss the cultural and religious values of biodiversity with suitable examples. (5)
7. (a) Name the plant part used and the activity of the following botanical medicines: (5)
 - (i) Ginseng
 - (ii) Aloe
 - (iii) Garlic
 - (iv) Ginger
 - (v) Camomile
- (b) What are invasive species? How can they cause biodiversity loss? Explain giving suitable examples. (5)
8. (a) List the major impacts of biodiversity loss. (5)
- (b) What are various categories of protected areas under different groups according to IUCN? (5)

9. (a) Give a brief account of the importance of wetlands giving suitable examples. (5)
- (b) What is nature tourism? List its negative impacts. (5)
10. (a) What is sustainable use of biological resources? How can a resource be made sustainable? (5)
- (b) What is Bonn convention? Explain its importance. (5)

TUTOR MARKED ASSIGNMENT
MED-007: Agriculture and Environment

Course Code: MED-007
Assignment Code: MED-007/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. Explain the most important impacts of agriculture on environments. (10)
 2. a) What is environmental stress? Describe two major environmental stresses in plants? (5)
 - b) Explain the major challenges in implementing a sustainable land use. (5)
 3. How loss of agro-biodiversity affects the nutrition of developing countries. Discuss the key principles to conserve and countries enhance agro-biodiversity. (5+5=10)
 4. Discuss the various ways in which off-farm inputs affect air quality. (10)
 5. Explain the goals of IPM. Discuss the major issues involved to achieve these goals. (4+6=10)
 6. Describe indigenous and traditional methods of application and conservation of plant nutrients contained in agricultural wastes. (10)
 7. Explain the process of composting and vermicomposting for conversion of agricultural wastes into eco-friendly valuable agricultural inputs. (10)
 8. Explain common problems encountered in achieving objectives of watershed management and their possible solution. (10)
 9. a) Describe the approaches for sustainable agriculture. (5)
 - b) How can agriculture be integrated with poultry in alternative agriculture? (5)
 10. Discuss the measures that respective government can take to accelerate the growth of agricultural sector in the South Asian countries. (10)

TUTOR MARKED ASSIGNMENT
MED-008: Globalisation and Environment

Course Code: MED-008
Assignment Code: MED-008/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 role of technology, trade and finance capital in the process of economic globalisation. Explain briefly how economic globalisation has been responsible for global climatic change. (5+5=10)
 2. Distinguish between natural calamities and man-made disasters. Explain briefly one example for each. (5+5=10)
 3. What is meant by North-South divide? Discuss the role of MNCs, TNCs and IFIs in economic globalisation. (5+5=10)
 4. Write short notes on the following: (5x3=15)
 - a) The 1972 United Nations Conference on human environment
 - b) TRIPs
 - c) Rio Declaration on environment and development
 5. Explain briefly the general principles of international environmental law. (10)
 6. What are the main organs of United Nations and their responsibilities? Discuss the role of Bretton Woods Institutions as major developers in the Third World. (5+5=10)
 7. Discuss how WTO addresses environmental issues. What is the difference between bilateral and multilateral agreements? List five multilateral agreements related to transnational air pollution and biodiversity. (5+5=10)
 8. Write Short notes on the following (300 words): (5x5=25)
 - a) Structure and perspectives of NGOs
 - b) Narmada Bachao Andolan and Chipko Movement
 - c) Biodiversity and different arguments regarding protection of biodiversity
 - d) Indicators of sustainability of food security
 - e) Green Business and Green Consumerism