

**POST GRADUATE DIPLOMA IN  
ENVIRONMENT AND SUSTAINABLE  
DEVELOPMENT  
(PGDESD)**

(Valid from January 01, 2010 to December 31, 2010)

Tutor Marked Assignments (TMA) for

**MED- 005**

**MED- 006**

**MED- 007**

**MED- 008**



**INDIRA GANDHI NATIONAL OPEN UNIVERSITY**  
Maidan Garhi  
New Delhi -110068

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:**

<b>Cycle</b>	<b>Course</b>	<b>Deadlines</b>
<b>January</b>	<b>MED-001 to MED-004 MED-005 to MED-008</b>	<b>May 31 of the same year Nov. 30 of the same year</b>
<b>July</b>	<b>MED-001 to MED-004 MED-005 to MED-008</b>	<b>Nov. 30 of the same year May 31 of the next year</b>

**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.**

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:

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ENROLMENT NO.: .....

NAME : .....

ADDRESS : .....

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COURSE CODE: .....

COURSE TITLE: .....

ASSIGNMENT CODE: .....

STUDY CENTRE CODE: ..... DATE : .....

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PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

2. 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.
3. Leave at least 4 cm margin on the left, top and bottom of your answer sheet for the evaluator's comments.
4. Your answers should be brief, precise and in your own words. **Please do not copy the answers from the study material.**
5. Serious action will be taken if you copy the Assignment Response from any other student.
6. 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: Urban and Rural

Course Code: MED-005  
Assignment Code: MED-005/TMA/2009  
Maximum Marks: 100

- Note:** \* This assignment is based on the entire course.  
\* All questions are compulsory. Marks for the questions are shown on the right hand side.  
\* Please answer in your **own words**; do not copy from the course material.
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- 1 Write the full form of the following abbreviations: 1x5
- a) UNCED
  - b) SACEP
  - c) UNEP
  - d) ASEAN
  - e) CPCB
- 2 Write short notes on the following: 5x5
- a) Harvesting all parts of the trees for sustainable forestry
  - b) ENVIS and its network
  - c) Economic incentives for promoting environment friendly initiatives
  - d) The biocentric and ecocentric attitudes towards nature
  - e) Role of IPCC
- 3 Give short answers for the following (Limit your answer to 150 words each): 5x6
- a) Is it feasible to increase the carrying capacity of the environment? Discuss.
  - b) Do you see gender as an issue in the 21<sup>st</sup> century particularly in the context of environmental management? Give reasons.
  - c) Illustrate and explain a model of an industrial manufacturing process with recycling and end of the pipe waste treatment provisions.
  - d) Prepare a concise account on the teachings of various religions about environmental management.
  - e) By giving the background of environmental problems of a city, discuss the measures for improving the situation.
  - f) Differentiate between environmental regulation, guidelines and standards. Give an example of each.
- 4 Answer the following in about 300 words. 10x4
- a) State the five principles on which Environmental Impact Assessment (EIA) is based. Explain the applications of Geographical Information System in EIA.
  - b) Present a detailed account of sustainable development highlighting its following aspects: history of development of this approach, concept, focus areas, conditions and principles.
  - c) Elucidate the concept of common goods. Taking water and sanitation in rural areas as examples of common goods, discuss the challenges involved in their management.
  - d) Describe the concept of sustainable agriculture. Elaborate the strategies for realising its goals.

# TUTOR MARKED ASSIGNMENT

## MED-006:Natural Resource Management :Physical and Biotic

Course Code: MED-006  
Assignment Code: MED-006/TMA/2009  
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. Enlist the biogeographic zones of India and discuss the wildlife of any two zones. (10)
2. Explain 'environmental accounting' and discuss future directions in biodiversity valuation. (4+6)
3. Differentiate between
  - a) Threatened and Endangered Species
  - b) Natural and Artificial Extinction (5+5)
4. Which habitats are vulnerable to species extinction and why? (5)
5. (a) Briefly discuss the mineral resources of India.  
(b) Explain the importance of forests as a natural resource. (5+5)
6. (a) Draw a labelled diagram for soil profile and explain different horizons. (5)  
(b) What are acid soils? How are they formed? Where are acid soils present in India? (5+5)
7. Briefly explain the following:
  - (i) Solid waste
  - (ii) Toxic waste
  - (iii) Soil Erosion
  - (iv) Greenhouse Effect (10)
8. (i) Discuss the need for conserving biodiversity. Describe different strategies for conserving biodiversity.  
(ii) Describe the global efforts to conserve biodiversity on earth. (7+3)
9. How can social and economic strategies help conserve biodiversity in an area.. (10)
10. Discuss the need for legislation for biodiversity conservations. List and describe the important features of various Acts necessary for conservation of biodiversity. (10)

# TUTOR MARKED ASSIGNMENT

## MED-007: Agriculture and Environment

Course Code: MED-007

Assignment Code: MED-007/TMA/2009

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. a) Identify two impacts of agriculture on environment that you think are the most negative impacts of agriculture. (5)  
b) Why is global warming also known as green house effect? Why is nitrous oxide classified as a green house gas? (5)
2. What is environmental stress? Describe two major environmental stresses in plants. (10)
3. What is drought? List the three categories of drought and strategies to mitigate drought conditions. (2+3+5)
4. How does the loss of agro-biodiversity affect, the nutrition of developing countries? Discuss the key principles to conserve and enhance agro-biodiversity. (5+5)
5. Discuss the various ways in which off-farm inputs affect air quality. (10)
6. Explain the role of integrated farming system in sustaining overall agricultural production. (10)
7. Explain the need for institutional capacity building in support of agriculture. Discuss the importance of people's participation in agriculture related activities and programmes. (6+4)
8. Discuss the various dimensions of technology transfer and the appropriate technologies for farmers with poor- resources. (10)
9. Discuss the merits of post harvest technology and explain the measures required to use this technology for attaining better environmental quality and improved productivity. (10)
10. Compare and contrast agro-forestry and social forestry. (10)

# TUTOR MARKED ASSIGNMENT

## MED-008: GLOBALISATION AND ENVIRONMENT

Course Code: MED-008  
Assignment Code: MED-008/TMA/2009  
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. Critically examine the economic globalisation and its impact on the global environmental changes. (10)
2. (a) Define the following terms: (5)
  - i) Tsunamis
  - ii) Toxic Wastes
- (b) Discuss the impact of environmental calamities on society. (5)
3. Explain the following in your own words: (10)
  - i) Man-made disasters
  - ii) Global Warming
4. Discuss and examine the role of MNCs &TNCs in the context of globalisation. (10)
5. Explain the role of the UN in the protection of environment. (10)
6. Examine the salient features of international environmental agreements. Substantiate your arguments as to how far they have been effective. (10)
7. Explain the following in your own words: (2×5=10)
  - i) International Court of Justice
  - ii) Rio Declaration
  - iii) North-South Divide
  - iv) IMF
  - v) World Environmental Organisation
8. What do you understand by bio-diversity? What are the major bio-diversity regions in India? (10)
9. What is the concept of human development? List the indicators of Sustainability (10)
10. Answer the following in your own words: (10)
  - i) What do you understand by Green Business?
  - ii) Contribution of Indian Judiciary towards environmental protection.