

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

**It is compulsory to submit the assignment before
filling in the examination form.**

(Valid from January 1st, 2012 to December 31st, 2012)

Tutor Marked Assignments (TMA) for

MED-001

MED-002

MED-003 (Earlier MED-009)

MED-004



INDIRA GANDHI NATIONAL OPEN UNIVERSITY

Maidan Garhi
New Delhi – 110 068

(For January, 2012 Cycle)

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/2012
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: (2x10)
 - i. What do you understand by the terms 'biosphere' and 'ecosystem'.
 - ii. Distinguish between igneous and metamorphic rocks
 - iii. What is the difference in the ozone layer formation in the different strata in the atmosphere?
 - iv. What special property of water allows animals to survive in frozen lakes?
 - v. Give an example each of any two types of food chains.
 - vi. Give two differences each between Viruses and bacteria
 - vii. Discuss any two symbiotic relationships in animals
 - viii. What physical parameters determine whether an aquatic habitat is estuarine or oceanic?
 - ix. Distinguish between bioaccumulation and bio-magnification.
 - x. Why is the sub-arctic biome economically important?

2. Answer the following questions in not more than 150-200 words. (5x4)
 - i. How do human activities affect the hydrological cycle?
 - ii. With the help of a diagram, explain the flow of energy through the ecosystem
 - iii. Why are rainforest soils low in nutrient content while grasslands have nutrient rich soil?
 - iv. Why does an area in a rain shadow often become a desert?
 - v. Explain the main factors that affect population size.

3. Answer any **four** of the following questions in about 500 words: (10x4)
 - i. What do you understand by the productivity of an ecosystem? Define GPP, NPP and SP. Why does a young plantation have a high NPP/GPP ratio as compared to a mature tropical forest?
 - ii. Define a community in an ecosystem. How do species interactions maintain a community's structure? Explain with help of a suitable example.
 - iii. What gives rise to the seasons on earth? Discuss briefly how winds help to distribute heat on earth.
 - iv. Draw a labeled diagram of the phosphorus cycle. How do human activities disturb this cycle?

- v. Discuss the influence of population growth on land resource use. Suggest one measure each at the levels of individuals and the community to mitigate the effects.
 - vi. Describe the causes of air pollution. What are the health effects associated with high levels of air effects pollution?
4. Write briefly about the following in not more than 250 words: (4x5)
- i. Acid rain and its effects
 - ii. Global warming and its consequences
 - iii. Biodiversity conservation
 - iv. Nuclear energy

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

Course Code: MED-002
Assignment Code: MED-002/TMA/2012
Marks: 100

Answer any five questions in about 500 words each. Attempt at least two questions from each section about 1000 words each. Each question carries 20 marks.

SECTION-I

1. Explain concept of sustainable development and economic and social inequities.
2. Discuss the various principles of carrying capacity for Sustainable Development.
3. Explain the Environmental Legislation and its implementation in Indi for Sustainable Development.
4. What are the indicators of inequitable growth and its important on sustainable development.
5. Explain the following in your own words:
 - a) WTO on Environment and Sustainable development
 - b) Intellectual Property Rights (IPR)

SECTION-II

1. Explain the main features of Rio Earth Summit in 1992.
2. Explain the Regional initiatives have been taken for Environmental protection.
3. Explain the various civil society initiatives for the protection of Environment and Sustainable development.
4. Discuss the role of scientific and Traditional knowledge for Sustainable development.
5.
 - (a) Poverty and Sustainable Development
 - (b) Innovation and Industry

TUTOR MARKED ASSIGNMENT MED-003: Energy and Environment

Course Code: MED-003
Assignment Code: MED-003/TMA/2012
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. Describe the energy resource base of the earth. (10)
2. Explain how electricity is produced in coal based thermal power plants, hydro and nuclear power plants. (15)
3. Discuss the various goals of sustainable energy policy with an emphasis on policies related to energy and environment at the international and SAARC level. (15)
4. Discuss the rural energy planning in India. (10)
5. Describe energy in relation to sustainability and explain the requirements of governance and finance for sustainable energy. (15)
6. Explain how energy supply and demand should be managed to improve energy efficiency. (15)
7. Discuss the different solar energy technologies. (10)
8. Explain the important applications of biomass technologies. (10)

TUTOR MARKED ASSIGNMENT

MED-004: Towards Participatory Management

Course Code: MED-004
Assignment Code: MED-004/TMA/2012
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. Define PRA and discuss uses of key techniques of PRA in the developing of participatory projects. Support your answer with a proper example. (2+8)
2. a. What is community organization? Describe various threats to the community organization. (5)
b. Discuss the significance of participatory approaches in empowering people for sustainable development. (5)
3. Differentiate between Downstreaming and Upstreaming participation. Also discuss issues of mainstreaming for organizational change. (10)
4. Discuss the effects of globalization on gender inequalities. Describe how the role of women in environment and development can be strengthened. (10)
5. Discuss with proper examples how reversals and reality would help the rural developers in sustainable development of rural areas. (10)
6. What is good governance? Describe the basic feature of an organizational model of participatory management with particular reference to South Asia. (10)
7. Describe the organizational arrangement of SACEP. List any five important milestones of SACEP. Describe the future projects of SACEP. (3+2+5)
8. What is the role of youth in development work? Discuss how development work can become a profession for you? (5+5)
9. What is participatory forestry? Describe its benefits. Give your opinion on JFM (Joint Forest Management) in India. (2+2+6)
10. Discuss the following in your own words. (2×5)
 - i) Sustainable mountain development
 - ii) Good coastal management practice
 - iii) The Sukhomajri –water shed management project
 - iv) Chipko Movement
 - v) Infoyouth