

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

(Valid from January 1, 2009 to December 31, 2009)

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 -110068

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	May 31 of the same year Nov. 30 of the same year
July	MED-001 to MED-004 MED-005 to MED-008	Nov. 30 of the same year May 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.

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.

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-001: Understanding the Environment

Course Code: MED-001
Assignment Code: MED-001/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.

- 1 a) What are the characteristics of the following types of rocks? (5x3)
Igneous, Sedimentary and Metamorphic.
b) How does thermal stratification affect a water body?
c) Make blocks and arrows diagram of a supplementary food chain.
d) List the components that add up to give the total energy content of a trophic level.
e) What accounts for the high productivity in a tropical forest?
- 2 Write the units of the following: (1x5)
a) Relative humidity
b) Thickness of ozone layer
c) Salinity
d) Productivity
e) Ecological efficiency
- 3 a) Diagrammatically represent the relative proportions of the various reservoirs of Hydrosphere. (5x6)
b) List any **ten** energy requiring vital processes of the living organisms.
c) With the help of a diagram explain why an area in the rain shadow becomes a desert?
d) Elaborate the features that impart stability to the food web and the ecosystem.
e) Using the energy flow diagram explain why the number of links in a food chain is limited to 3 or 4.
f) Suggest how a scheme of 'zero garbage generation' in a city based on the principle of Reduce, Reuse and Recycle can be made successful.
- 4 Prepare brief accounts of the following: (5+5)
a) Natural global warming; & b) El-Niño
- 5 a) Briefly describe the parameters that need to be checked to ensure that water is fit for consumption. (5+5)
b) Why is ozone considered to be a pollutant in the troposphere and a protectant in the stratosphere?
- 6 Define the term soil. How would you proceed to know about the nature of the soil of a particular place? Explain in detail. (2+8)
- 7 Discuss how the climatic factors govern the distribution and characteristics of the biomes. (10)
- 8 Growth of human population has an impact on resource availability. Explain taking into account any five resources. (10)