

**ASSIGNMENT BOOKLET**  
**Bachelor's Degree Programme (B.Sc.)**

**Application Oriented Course**  
**on**  
**Human Environment**

**Valid from 1<sup>st</sup> January 2024 to 31<sup>st</sup> December 2024**

**It is compulsory to submit the Assignment before filling in the  
Term-End Examination Form.**

**Please Note**

- You can take electives '56 to 64' credits from a minimum of TWO and a maximum of FOUR science disciplines, viz. Physics, Chemistry, Life Sciences and Mathematics.
- You can opt for elective courses worth a MINIMUM OF 8 CREDITS and a MAXIMUM OF 48 CREDITS from any of these four disciplines.
- At least 25% of the total credits that you register for in the elective courses from Life Sciences, Chemistry and Physics disciplines must be from the laboratory courses. For example, if you opt for a total of 64 credits of electives in these 3 disciplines, at least 16 credits 'out of those 64 credits' should be from lab courses.
- You cannot appear in the Term-End Examination of any course without registering for the course. Otherwise, your result will not be declared and the 'responsibility will be yours'.



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

**(2024)**

Dear Student,

As explained in the Programme Guide for BDP, you will have to do one assignment for the Application Oriented Course of Human Environment (AHE-01). The assignment is Tutor Marked Assignment (TMA) and is based on all the six blocks of the course.

We hope you are familiar with the system of evaluation to be followed for the Bachelor's Degree Programme. At this stage you may probably like to re-read the section on assignments in the Programme Guide for Application Oriented Courses that we sent you after your enrolment. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation which would consist of **one tutor-marked assignment** for this course.

### **Instructions for Doing Your Assignments**

Before attempting the assignment please read the following instructions carefully.

1. On top of the first page of your TMA answer sheet, please write the details exactly in the following format:

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ENROLMENT NO.: .....

NAME: .....

ADDRESS: .....

COURSE CODE: .....

COURSE TITLE: .....

ASSIGNMENT NO.: .....

STUDY CENTRE: .....

DATE: .....

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

2. Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
3. Leave 4 cm margin on the left, top and bottom of your answer sheet.
4. Your answers should be precise.
5. While solving problems, clearly indicate the question number along with the part being solved. Be precise. Recheck your work before submitting it.
6. **This assignment will remain valid from January 1, 2024 to December 31, 2024.** However, you are advised to submit it within **12 weeks** of receiving this booklet to accomplish its purpose as a teaching-tool. Answer sheets received after the due date shall not be accepted.
7. The assignments have to be submitted to the **Coordinator of your study centre. Answer sheets received after the due date shall not be accepted.**
8. **We strongly feel that you should retain a copy of your assignment response to avoid any unforeseen situation and append, if possible, a photocopy of this booklet with your response.**
9. **The instructions for doing the assignment are also provided in the Programme Guide under Section 4.1 "Assignment". Do read the instructions carefully before starting your work.**
10. **It is compulsory to submit the assignment before filling in the examination form.**

Wishing you all good luck!

**ASSIGNMENT**  
**(Tutor Marked Assignment)**

**Course Code: AHE-01**  
**Assignment Code: AHE-01/TMA/2024**  
**Maximum Marks: 100**

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1. a) Differentiate between Supportive and Assimilative carrying capacity. (2)  
b) Describe the loss of Wild Life in India. (4)  
c) “Most of the Third World cities are really two cities within one”  
Discuss. (4)
2. Discuss with the help of suitable examples, how various human activities are responsible for land degradation. (10)
3. Write short notes on the following: (4×5=20)
  - a) Communicable diseases
  - b) Plant protection chemicals
  - c) Effect of atmospheric pollution on animals
  - d) Noise pollution induced diseases
  - e) Solar energy
4. a) What do you understand by the term biome? (1)  
b) Describe any *one* of the following biomes and write also about the threat faced by it. (4)
  - i) Tundra
  - ii) Tropical rain forest
- c) Calculate the annual rate of natural increase of a population(r) from the following data: the population has 1000 individuals, a birth rate of 60 per year and a death rate of 10 per year. (2)
- d) Discuss the concept of sustainable development. (3)
5. a) Write notes on the following: (5×3=15)
  - i) Human language and culture
  - ii) Environmental degradation due to mining and industrial activities
  - iii) Salt affectation in soil
  - iv) Ghettos and Suburban Living
  - v) Utilisation of agricultural wastes
- b) Discuss with the help of suitable examples how deforestation is caused due to demand of wood, required for industry and commercial purposes. (5)
6. (a) Write a note on the role of non-government organisations in imparting environmental education. (5)  
(b) “Legislation is often not perfect”, discuss the statement in terms of environment, using suitable examples. (5)

7. (a) Differentiate between geological and accelerated erosion. (2)
- (b) Describe the two broad methods of processing and recycling industrial wastes. (6)
- (c) Differentiate between carcinomas and lymphomas. (2)
8. a) List the *five* reasons for conserving wildlife and describe any one in brief. (4)
- b) Write about the *three* types of air quality standards that are prescribed by the Central Pollution Control Board of India. (3)
- c) What the collective strategy needs to be adopted by the countries of the Indian subcontinent in order to manage the environment of the region? (3)