

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

**Application Oriented Course  
on  
Human Environment**

**Valid from 1<sup>st</sup> January 2022 to 31<sup>st</sup> December 2022**

**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**

**(2022)**

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, 2022 to December 31, 2022.** 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/2022  
Maximum Marks: 100

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1. Differentiate between the following pairs: (10)
  - (i) Expansive and stationary population histograms
  - (ii) Food chain and Food web
  - (iii) Savanna and Tundra
  - (iv) Industrial wastes and Domestic wastes
  - (v) Parasitism and Predation
  
2. Write short notes on the following: (20)
  - (i) Bhopal gas tragedy
  - (ii) The three cell air circulation model for each hemisphere of earth to explain global circulation of air
  - (iii) Effect of air pollution on animals
  - (iv) Land as a non-living resource
  
3. (a) Discuss the harmful effects of plant protection chemicals and their effect on animals and human health. (5)
- (b) Diagrammatically depict the sulphur cycle. (5)
  
4. (a) List **any four** effects of urbanization on the environment and describe **any one** of them. (2+2=4)
- (b) Describe the steps involved in the primary and secondary treatment of sewage water in order to make it suitable for drinking purposes. (6)
  
5. (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)
  
6. (a) Discuss the statement that “agricultural residues and agro-industrial wastes, in fact are no waste. All of them have some use or the other and in that sense they are resources whose conventional use needs to be upgraded and better usability fully harnessed”. (4)
- (b) Describe the role of Non Governmental agencies in environmental protection and management in India and the problems faced by them. (4)
- (c) Give the **two** aims of environmental conservation. (2)
  
7. (a) Briefly discuss the concept of the new global economic system for long term survival of the human race. (4)
- (b) Write about the Environment (Protection) Act of India, passed by the parliament on 23<sup>rd</sup> May, 1986. (4)
- (c) Why is the following statement a misconception? “Cities are polluted where as villages are not”. (2)

8. (a) Discuss how organic farming can be used for improving land quality. (6)
- (b) Explain why India became the cradle of cultural exchange between East, West, Central Asia and South East Asia? (4)
9. Write short notes on the following: (10)
- (i) Communicable diseases
- (ii) Solar energy