

Assignment Booklet

BSCAEY Programme

B.Sc (Applied Sciences - Energy)

First Semester		
1.	BEY-001	Thermal Science
2.	BEY-019	Real Analysis and Discrete Mathematics
3.	BEY-012	Electrical and Electronic Sciences
4.	BEVAE-181	Environmental Studies (4)
5.	BHDAE-182	Hindi Bhasha aur Sampreshan (4) (any one from SL. No. 5)
	BEGAE-182	English communication skill(4) (any one from SL. No. 5)
	BEYE-022	Sanskrit Bhasha aur Sampreshan (4) (any one from SL. No. 5)



**SCHOOL OF ENGINEERING & TECHNOLOGY
INDIRA GANDHI NATIONAL OPEN UNIVERSITY**

Maidan Garhi, New Delhi – 110 068

JANUARY 2026

Dear Student,

Please read the information on assignments in the Programme Guide that we have sent you after your enrolment. A weightage of 30%, as you are aware, has been earmarked for continuous evaluation, **which would consist of one tutor-marked assignment** for this Programme. The assignment for BSCAEY (first semester) has been given in this booklet.

Instructions for Formatting Your Assignments

Before attempting the assignment, please read the following instructions carefully:

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

ENROLLMENT NO :.....

NAME :.....

ADDRESS :.....

.....

.....

PROGRAMME CODE:

COURSE CODE:

COURSE TITLE:

STUDY CENTRE:

DATE:

PLEASE FOLLOW THE ABOVE FORMAT 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) **These assignments submitted should be hand written in your own hand writing.**

We strongly suggest that you should retain a copy of your answer sheets.

- 6) **You cannot fill the Exam Form without** submission of the assignments. So solve it and **submit it at the earliest**. If you wish to appear in the **TEE, June 2026**, you should submit your TMAs by **April 30, 2026**. Similarly, if you wish to appear in the **TEE, December 2026**, you should submit your TMAs by **September 30, 2026**.
- 7) Assignments will be submitted at **your respective regional centre**.

We wish you good luck!

Assignment -4

(To be done **after** studying the course material)

Course Code: BEVAE-181

Course Title: Environmental Studies

Assignment Code: BEVAE-181/TMA/2026

Maximum Marks: 100

Last Date of Submission: May 31, 2026(For June TEE), September 30, 2026 (For December TEE)

Note:

1. For any question worth 5-7 marks the word limit is 200 words, for a 8 mark question it is 300 words.
 2. All questions are compulsory. All questions carry equal marks.
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| Q.1 | “To achieve the desired goal of Sustainable Development, societies have to make certain transitions which are very much essential.” Justify the statement in about 250 words | 8 |
| Q.2 | Differentiate between the following terms by giving suitable examples in about 125 words:
(a) Primary and secondary succession
(b) Direct and indirect use value of biodiversity | 8 |
| Q.3 | Answer the following questions in about 150 words each.
a) What is biodiversity hotspot? Why is India considered as a mega biodiversity hotspot?
b) Describe the life forms of aquatic ecosystem found in different zones with suitable examples and diagrams.
c) Differentiate between the surface and ground water. Describe the factors responsible for degradation of water.
d) Write a short note on carbon cycle with the help of a diagram. | 20 |
| Q.4 | How does Forest Right Act, 2006 helps tribal and forest dwellers in India? Explain with suitable examples in about 200 words. | 7 |
| Q.5 | Critically evaluate the status of non-conventional energy resources in India. Elucidate your answer with suitable examples in about 200 words. | 7 |
| Q.6 | Explain the following terms in about 60 words each:
a) Ecofeminism
b) Geographical and Social Inequity
c) Ozone Layer Depletion
d) Acid Rain | 2
2
2
2 |
| Q.7 | a) Explain any four impacts of improper waste disposal with suitable examples.
b) How does Landfilling act as an important method of waste disposal? Explain.
c) Describe the role of Central Pollution Control Board (CPCB) as an institution for monitoring the pollution levels of environment
d) How do collective actions help in addressing environmental issues and concerns? Explain. | 5
5
5
5 |
| Q.8 | “Habitat destruction is recognized as most significant threat to global biodiversity.” Elucidate the statement with respect to present day context in about 200 words. | 7 |

- Q.9 ‘Polluted water is a threat to our health and survival of life forms’ Explain it with respect to different agents of water pollutants in about 200 words. 7
- Q.10 “The ratio of those killed to those affected by natural disasters depend on the type of calamity, degree of preparedness and the density of population” Justify the statement with Explain your answer with suitable arguments and examples in about 250 words. 8