

# Assignment Booklet

## BSCAEY Programme

B.Sc (Applied Sciences - Energy)

First Semester	
BEY-001	Thermal Science
BEY-019	Real Analysis and Discrete Mathematics
BEY-012	Electrical and Electronic Sciences
BEVAE-181	Environmental Studies (4)
BHDAE-182	Hindi Bhasha aur Sampreshan (4)
BEGAE-182	English communication skill(4)
BEYE-022	<b>Sanskrit</b> Bhasha aur Sampreshan (4)



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

Maidan Garhi, New Delhi – 110 068

**JANUARY 2025**

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 2025**, you should submit your TMAs by **April 30, 2025**. Similarly, if you wish to appear in the **TEE, December 2025**, you should submit your TMAs by **September 30, 2025**.
- 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: AECC On Environmental Studies**  
**Assignment Code: BEVAE-181/TMA/2025**  
**Maximum Marks: 100**

**Last Date of Submission: May 31, 2025(For June TEE), September 30, 2025 (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.**
- 

Q.1	Why ecological significance of forest is more important in present day context? Explain.	8
Q.2	a) Explain the characteristics of Western Ghats for inclusion as Biodiversity hotspots.	4
	b) Why hydropower is regarded as the best source of energy? Explain it in detail.	4
	c) The importance of Biomass has been increasing day by day in our surroundings among renewable resources. Explain it with suitable examples.	4
	d) How does air pollution affect the atmospheric processes?	4
	e) What is Disposal of waste? Why segregation of waste is needed?	4
Q.3	“As humans civilization progressed, man started altering the environment in the pursuit of creating an economic, social and cultural environment of his own choice. This slowly resulted in the depletion of natural resources and degradation of environment.” Explain it in context of national legislations of water acts?	7
Q.4	Explain the human-environment relationship by taking examples of biotic and abiotic components?	7
Q.5	“Biosphere reserves are internationally recognized areas established to promote and demonstrate a balanced relationship between Humans and the Biosphere.” Elaborate this statement in the context of conservation of nature?	8
Q.6	Explain the following terms in about 60 words each:	
	a) Seed Bank	2
	b) Incineration	2
	c) Biological Oxygen Demand	2
	d) Public Health	2
Q.7	a) What is lentic and lotic ecosystem? Explain these two with suitable examples.	5
	b) What is ecological succession? Explain the types of succession with suitable diagrams.	5
	c) Explain the biocentrism and ecocentrism in context of human’s attitude towards nature?	5

d)	Define natural calamities and its types with suitable examples.	5
Q.8	Explain the causes of ozone depletion? How do ultraviolet rays affects human health, animals, plants, micro-organisms, water and air quality.	7
Q.9	“Education for environmental awareness is essential for the younger generation as well as for the older generation.” Explain the statement with suitable examples.	7
Q.10	“Water Harvesting is one of the effective measures to combat drought.” Explain this statement with suitable arguments.	8