

Assignment Booklet

BSCAEY Programme

B.Sc (Applied Sciences - Energy)

Third Semester	
BEY – 004	Zero Emission Vehicles
MST – 003	Probability Theory
BEY – 015	Data Analysis with R and Python
BEYE – 023	Stories from Indian Epics, Puranas and Siddhanta(s)
BEYE – 024	Hindi ka Rashtriya evam Sanskritik Kavya



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:
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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: BEYE-023
Course Title: Stories from Indian Epics, Puranas and Siddhanta(s)
Assignment Code: BEYE-023/TMA/2026
Maximum Marks: 100

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

1. All questions are compulsory. Marks for the questions are shown within the brackets on the right side.

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| Q.1 | Examine the instances of unconventional births in the Mahabharata (e.g., the birth of the Kauravas, Karna, and Draupadi). How do these narratives relate to modern concepts of assisted reproductive technologies like cloning, genetic engineering, and in-vitro fertilization? | 20 |
| Q.2 | Discuss the story of King Kakudmi and Revati from the Mahabharata in relation to modern theories of time travel and time dilation. How does this legend compare with Einstein's theory of relativity? | 20 |
| Q.3 | Discuss the astronomical contributions of the Surya Siddhanta. How did its mathematical and astronomical calculations influence later developments in Indian and global scientific traditions? | 20 |
| Q.4 | Analyze the synthesis of five astronomical traditions in Pancha Siddhantika. How does this text demonstrate the evolution of observational and computational astronomy in ancient India? | 20 |
| Q.5 | Examine the mathematical and astronomical advancements presented in Siddhanta Shiromani, particularly the work of Bhaskaracharya. How do its concepts of calculus, planetary motion, and algebraic equations compare to modern mathematical principles? | 20 |