



**Prahladrai Dalmia Lions College Commerce & Economics**  
**(Government Aided & Affiliated to University of Mumbai & AICTE, New Delhi)**  
**NAAC Re-accredited with 'A' Grade (III Cycle) ISO 21001:2018 Certified**  
**University of Mumbai Recognised Research Centre in Accountancy, Commerce & Business Economics**  
**A Government Approved Hindi Linguistic Minority Institute**

## **ATKT SEMESTE I**

**Internal Examination October, 2026.**

**BSc.(Computer Science), NEP BATCH      DATE - 15/10/2026**

### **INSTRUCTIONS FOR THE STUDENTS HAVING ATKT IN INTERNALS:**

1. **Date of Submission of the Projects- 24<sup>th</sup> October, 2026 (Timings 9:30 am)**
2. **Reporting time for students: at least 10 minutes before the mentioned time. Venue: 2nd floor staff room). Please meet Ms. Prachi Sanghvi.**
3. **Students have to be present in person for the submission.**
4. **Submission of projects to be done on proper A4 size paper, handwritten by the candidate himself only. The Front page should contain details of Roll no, Name of the student, Semester, Subject.**
5. **Print out of the questions uploaded should be attached along with the project. Students should also enclose a photocopy of the ATKT fee paid receipt along with each of his projects.**
6. **On the date of submission there will be a viva voce on the given questions/topics.**
7. **If the student fails to present himself on the given date and time he will be marked ABSENT for the said subject.**
8. **Any Submissions after the above mentioned date and time will not be accepted and entertained under any circumstances.**
9. **Note: If students have any discrepancies in the below mentioned questions or any queries related to same need to meet Dr. Sneha Hathi on or before 03<sup>rd</sup> October, 2026 (by 11 am).**

**Dr. Sneha Hathi**

**BSc. CS Co-Ordinator**

**CA Durgesh Kenkre**

**Exam Convenor**

**Ms. Subhashini Naikar**

**Vice Principal, SFC**

**Prof. (Dr.) D N. Ganjewar**

**Principal**

DI/N-STD/GEN/00

# **INTERNAL ATKT PROJECT TOPIC QUESTIONS**

## **STUDENT TO ANSWER ALL THE QUESTIONS**

### **FYBSc.CS SEMESTER I ATKT INTERNAL PROJECT QUESTIONS**

**NOTE: Students shall attempt any five questions out of the same as per their subjects allocated and in which they have ATKT only in internals**

#### **Subject - Fundamentals of Database Systems**

1. Discuss the various issues with database security.
2. List and explain any five SQL mathematical functions with specific examples.
3. Briefly note the types of DDL commands in SQL with examples.
4. Explain the GRANT and REVOKE commands in SQL with examples.
5. Briefly explain the types of Clauses in DBMS.
6. Why is there a need of normalization? Explain its types with examples.
7. What do you mean by Join? Explain Full Outer join and Cross join with suitable query example
8. Explain the client - Server model with a suitable diagram.

#### **Subject - Entrepreneurship Management**

1. What is franchising and explain its features
2. Explain in detail the Take over
3. Explain the problems and challenges faced by social entrepreneurship
4. Explain the role of women entrepreneurs?
5. Explain the objectives of SMEs
6. What is IDEA generation and explain the sources of IDEA generation
7. Explain the various Types of Entrepreneurs
8. Explain the Marketing Plan components of Ideal Business Plan
9. What is SWOT analysis? Explain its components along with any one case study
10. Explain the Internal factors of Business environment

#### **Subject - Indian Knowledge System**

1. Discuss the major scientific contributions originating from the Indian Knowledge System.
  2. State and discuss the key features of Macaulay's Education Policy (MEP).
  3. Analyze the positive impacts and modern developments resulting from Macaulay's Education Policy.
  4. Identify the major subjects, specialized crafts, and sciences taught at Taxila University.
  5. Analyze the influence, intellectual legacy, and historical impact of Taxila University.
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#### **Subject - Co-curricular activities**

1. Identify and describe various fine art disciplines used in creative expression.
2. Demonstrate the step-by-step procedural technique and design principles involved in creating traditional Rangoli patterns.
3. Analyze the artistic elements, cultural symbolism, and aesthetic principles of traditional Mehendi designing.
4. Analyze why soft skills and language proficiency are critical elements for effective performance in public speaking and elocution.
5. Apply key narrative structural elements (introduction, plot, characterization, setting) to develop a short story

## **Subject - Statistics with R Programming (External)**

1. Write an R program to calculate probabilities and generate random values using normal distribution and binomial distribution functions.
2. Write an R program to demonstrate the use of `abs()`, `sqrt()`, `ceiling()`, `floor()`, `round()`, `trunc()`, `max()` and `min()` using suitable numeric values.
3. Write an R program to demonstrate assignment operators, conditional statements, loops, and date-time function
4. Write an R program to create frequency tables, contingency tables, and cross-tabulations for a given dataset..
5. Create a character vector containing five fruit names. Write an R program to find its length, access and modify an element, add a new element, convert all elements to uppercase and lowercase, count characters and sort the vector.
6. Write an R program to import a dataset, manage and analyse the data using RStudio, and prepare a statistical summary with appropriate visualizations.
7. Write an R program to accept marks and attendance of a student and use logical operators to check whether the student satisfies the conditions for examination eligibility. Display appropriate TRUE/FALSE results.
8. Write an R program to create and customize graphical representations using single-variable, two-variable, and multiple-variable plots.
9. Write an R program to create vectors, matrices, arrays, lists, and data frames and perform basic operations on them.
10. Write an R program to perform string manipulation operations such as concatenation, character counting, substring extraction, and string replacement.

## **Subject - Introduction to Programming with Python (External)**

1. Write a Python program to calculate the total marks, percentage, and grade of a student using conditional statements.
2. Write a Python program using NumPy to perform array creation, indexing, slicing, and mathematical operations.
3. Design a class to store information of student and display it.
4. Write a Python program to store student records in a binary file using pickle, demonstrate file positioning, and compress the file into a ZIP archive..
5. Write a Python program using regular expressions to validate email addresses, mobile numbers, passwords, and date.
6. Write a Python program using user-defined and lambda functions to calculate student marks, find the highest and lowest marks, and sort the results...
7. Write a Python script to sort a dictionary in ascending or descending value.
8. Write a Python program to count characters and words, find word frequency, and insert a substring into a given string.

## **Subject - Computer Science Practical 1 (External)**

1. Perform basic database management operations, take your own table.
2. Verify the truth table of various logic gates (NOT, AND, OR, NAND, NOR, EX-OR, EX-NOR) using Logisim.
3. Simplify given Boolean expressions and realize them using Logisim.
4. Identify entities, attributes, keys, and relationships. Apply generalization and
5. specialization.
6. Execute simple queries and utilize aggregate functions (e.g., COUNT, SUM, AVG).
7. Perform queries using SELECT statement, take ur own table
8. Perform queries using wildcard functions , any 3
9. Execute inner and outer join queries.
10. Alter a table, drop/truncate/rename tables, perform backup/restore operations on a database.

### **Important Note –**

**Students who have got ATKT in INTERNAL EXAMINATION OF Practical Subjects only need to submit their whole Journal Book**