

Class XII Computer Application

(General Students)

Session: 2025-26

Time: 3 hours

Theory: 60 Marks

Practical: 35 Marks

INA: 5 Marks

Structure of Question Paper

1. Question paper will be divided into three Parts (Part- A, Part- B, and Part C).
2. In Part- A, will consists of two Questions:
 - i. Que no. 1 will have 7 questions of Multiple-Choice and True/False type, carrying one mark each.
 - ii. Que no. 2 will have 8 questions of fill in the blanks and full form type, carrying one mark each.
3. In Part -B, there will be 10 Questions from Question no 3 to 12, each question will be of 3 marks.
4. In Part –C, there will be 3 questions from Question no. 13 to 15, each question will be of 5 marks. However, an internal choice has been provided in the questions of Part C.

S.No.	Name of Chapter	Que Carrying 1 mark	Que Carrying 3 marks	Que Carrying 5 marks
1	Networking and Internet	2	-	1+C
2	Cyber Laws and Ethics	1	2	-
3	Database Management System	2	2	-
4	Software Engineering	2	-	1+C
5	Introduction to Python	2	2	-
6	Data Types, Operators and Expression in Python	1	2	-
7	Control Statements in Python	1	-	1+C
8	Strings in Python	2	1	-
9	Lists, Tuples and Dictionaries in Python	2	1	-
Total		15x1=15	10x3=30	3x5=15

Note: In the above table, "1+C" stands for One Question with Internal Choice

PRACTICAL

Time: 2 hrs

Marks: 35

EVALUATION SCHEME FOR PRACTICAL

1. Programming & Database Concepts:

There will be four Practical Programs from which candidate has to attempt any three Programs. Each Program will be of 5 marks. Marks for the programming are to be given on the basis of program documentation /indentation, algorithm and result (output).

3 X 5=15 Marks

2. Viva-Voce

10 Marks

3. Practical record file

7 Marks

Record of at least 20 programs in (with listing and Outputs) based on programming concepts and on data base concepts

4. Chart/Modal Making

3 Marks

SYLLABUS: All the relevant practical exercise will be based upon the relevant chapters mentioned in the Theory Syllabus.

Practical Activities

- 1. Create the following table in MySQL with table name: stu_table and insert the records as shown below:**

Roll No	Student Name	Class	Marks	Result
101	Dazy	12th	56	Pass
102	Amit	12th	15	Fail
103	Rohit	12th	72	Pass
104	Param	12th	96	Pass
105	Divya	12th	76	Pass

2. Write a query In MySQL which shows records (using above table: stu_table) as per the following criteria:
 - a. Marks between 50 to 80
 - b. Where Student Name ends with t
 - c. Where Result is Fail
3. Perform the following on the table: stu_table
 - a. Update the marks to 60 for the student with Roll No 101
 - b. Delete the record with Student Name "Rohit"
 - c. Insert a new entry of student with Roll No 106
 - d. Show the table in sorted form (descending order) as per the marks obtained by the student
4. Write a program in Python to calculate the Area of Circle
5. Write a program in Python to Swap two numbers
6. Write a program in Python to find the largest of two numbers
7. Write a program in Python to check if the given number is Zero, Negative or Positive
8. Write a program in Python to Check whether a given character is a vowel or consonant
9. Write a program in Python to find the factorial of a given number.
10. Write a program in Python to Calculate the sum of digits of a given number.
11. Write a program in Python to reverse a number.
12. Write a program in Python to linearly search an element from a List
13. Write a program in Python to find the sum numbers stored in a List.
14. Write programs to generate the following pattern:

*	1234	E
**	123	ED
***	12	EDC
****	1	EDCB
15. Write a program in Python to check if given string is Palindrome or not.
16. Write a Python program which shows the use of various String Operations (Concatenation, Repetition, Membership & Slicing)
17. Write a Python program to sort the list of fruits alphabetically.
18. Write a Python program to show the different methods of slicing on Strings

19. Write a Python program to add the individual elements of two Lists.
20. Write a Python program to create a list of lists (Nested or 2D Lists) and show the Nested List in Matrix form
21. Write a Python program to count the occurrences of an element in a Tuple
22. Write a Python program which shows how to work with Dictionaries

Charts/Models

- Prepare a chart/model which shows the different types of Network Topologies
- Prepare a chart/model which shows the different types of Transmission Media
- Prepare a chart/Model which depicts the Concept of a Client and Server.
- Prepare a chart/Model for the CIA Triad.
- Prepare a chart/model for Waterfall-Software Development Process Model
- Prepare a chart/model that shows the concept of Data and Information
- Prepare a chart/model that shows the MySQL Query Processing Model
- Prepare a chart/model that shows the basic terminologies of Relational Model