



Reg. No.

--	--	--	--	--	--	--	--

V Semester B.C.A. Degree Examination, December/January - 2025/26

**COMPUTER SCIENCE**

**Journey into Fundamentals and C-Programming Concepts**

**(NEP Scheme F+R)**

**Time : 2½ Hours**

**Maximum Marks : 60**

**Instructions to Candidates:**

Answer All the Parts.

**PART - A**

**Answer any Four questions. Each question carries 2 marks.**

**(4×2=8)**

1. What is operating system?
2. Convert octal  $456_{(8)}$  to decimal number.
3. What is the use of Recycle bin?
4. What are keywords? Mention any two keywords.
5. What is a String?
6. List the Relational operators.



**PART - B**

**Answer any Four questions. Each question carries 5 marks.**

**(4×5=20)**

7. What is flowchart? Write the various symbols used in writing a flow chart.
8. Convert the number system.
  - a)  $23_8 = \underline{\hspace{2cm}}_{10}$
  - b)  $FACE_{16} = \underline{\hspace{2cm}}_{10}$
9. Explain the structure of C-program.

**[P.T.O.]**



10. What is the use of
- a) getchar(),
  - b) putchar(),
  - c) gets(),
  - d) puts().
11. Explain switch statement with one example.
12. Explain different types of computer languages.

**PART - C**

Answer any Four questions. Each question carries 8 marks.

(4×8=32)

13. a) What is computer virus? Mention the uses of antivirus software. (4)  
b) What is an Algorithm? Write advantages of algorithm. (4)
14. Explain the different data types available in C with examples.
15. Explain:
- a) nested if-else statement and
  - b) for loop with example.
16. Write short note on:
- a) Paint.
  - b) Note pad.
  - c) Word pad.
  - d) Calculator.
17. a) Write flowchart to find area of a circle. (4)  
b) Write an algorithm to find largest of three numbers. (4)
18. Define operating system. Explain different types and functions of operating system.
-