



**Jain College, Jayanagar**  
**I PUC MOCK PAPER – JAN 2020**  
**Subject: COMPUTER SCIENCE (41)**

Duration: 3hr15 minutes

Max.Marks: 70

**PART-A**

**I. Answer all the questions.**

**10 × 1 =10 M**

1. Name the world's first programmer.
2. Expand OCR.
3. What is a flow chart?
4. Define token.
5. Mention the use of >> operator.
6. Give the purpose of break statement.
7. Mention any one rule to use index of an array.
8. Define library functions in C++.
9. Name any one Menu on menu bar in MS Word.
10. Write the cell address of the highlighted cell in ESS.

A	B	C
1		
2		
3		

**PART-B**

**II. Answer any 5 questions from the following. Each question carries 2 marks.**

**5 × 2 = 10 M**

11. Mention any 2 features of computer.
12. What are read and write operations with respect to main memory.
13. Mention the functions of operating system.
14. Write any 2 features of an algorithm.
15. Briefly explain inheritance.
16. What is the purpose of get( ) and put( ) function in C++.
17. What is the difference between save as and save?
18. Write a note on modifiers of **int** datatype.

**PART-C**

**III. Answer any 5 questions from the following. Each question carries 3 marks.**

**5 × 3 = 15 M**

19. Give the features of non-impact printers.
20. Convert 576.75 to binary and hexadecimal.
21. Give the differences between compiler and interpreter.
22. Explain top down design in problem solving methodology with an example.
23. Explain any 3 escape sequences.
24. Explain cascading of input output operators in C++.

25. Explain any 3 built in functions under #include<string.h>
26. Write the example for nested structure.

#### **PART-D**

**IV. Answer any 7 questions from the following. Each question carries 5 marks.  $7 \times 5 = 35$  M**

27. Explain the features of first generation of computers.
28. Subtract  $47_{(10)}$  from  $39_{(10)}$  using 2's complement method.
29. Draw the flow chart to find sum of the digits of a number using while loop.
30. Who developed C++? Explain the characteristics in detail.
31. Write a program in C++ to input four subject marks .calculate total, percentage and output result as first class, second-class , pass class and fail using switch statement.
32. Explain the syntax of for loop with an example.
33. Define array. Explain memory representation of 1D array.
34. Define function. Write the syntax and explain structure of function definition.
35. Write the advantages of ESS.
36. Explain the use of any 5 arithmetic and trigonometric functions in MS Excel with suitable example.
37. Define the following:
  - a) Web page
  - b) Web site
  - c) Home page
  - d) Web browser
  - e) Search engine .

\*\*\*\*\*All the Best\*\*\*\*\*