

I P.U.C – MODEL QUESTION PAPER – 1
FOR REDUCED SYLLABUS– 2020-21

Subject: COMPUTER SCIENCE

Time: 3 hr. 15 mins.

Total Number of Questions: 37

Subject Code:41

Max. Marks: 70

PART - A

I. Answer the following questions:

1 x 10 = 10

Each question carries ONE mark

1. Who is called father of computer?
2. Define Cache Memory?
3. Expand ASCII.
4. Name any one Multi-User Operating System.
5. What is syntax error?
6. Define Keyword.
7. Write any one escape sequence used in C++.
8. Name the operator used with cout in C++.
9. What is the use of <math.h>?
10. Define an array.

PART - B

II. Answer any FIVE of the following questions.

2 x 5 = 10

Each question carries TWO marks

11. Write any two features of III generation of computers.
12. Compare RAM and ROM.
13. Mention the different types of Number System.
14. Define a) Testing b) Debugging
15. Write any two applications of OOP.
16. List the fundamental data types used in C++.
17. What is cascading of Input and Output operators?
18. Name any two string functions in C++.

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PART – C

III. Answer any FIVE of the following questions.

3 x 5 = 15

Each question carries THREE marks

19. Expand a) OCR b) OMR c) MICR
20. Convert $45_{(10)}$ to binary, octal and hexa-decimal number systems.
21. Differentiate between Interpreter and Compiler.
22. What is flowchart? Mention different types of flowchart.
23. Write an Algorithm for Simple Interest.
24. Mention the rules for naming Identifiers.
25. What is sequential construct? Give one example.
26. Give the Syntax and example for initializing one dimensional array at declaration.

PART - D

IV. Answer any SEVEN of the following

7 x 5 = 35

Each question carries FIVE marks

27. Explain different functional units of computer.
28. What is printer? Explain the types of printers.
29. Solve: $56_{(10)} - 22_{(10)}$ using 2's complement method.
30. What is an operating system? Explain the functions of operating system.
31. Explain **While Loop** with syntax and example.
32. Write the symbols and their meaning used in Flow Chart.
33. Explain structure of C++ program with an example.
34. Explain arithmetic operators in C++ with suitable example.
35. Write a C++ Program to compute the factorial of a given number using for loop.
36. Compare if statement and if – else statements with an example for each.
37. Write a C++ program segment to accept and to display two-dimensional array.

I P.U.C – MODEL QUESTION PAPER – 2
FOR REDUCED SYLLABUS– 2020-21

Subject: COMPUTER SCIENCE

Time: 3 hr. 15 mins.

Total Number of Questions: 37

Subject Code:41

Max. Marks: 70

PART - A

I. Answer the following questions:

1 x 10 = 10

Each question carries ONE mark

1. Name the major component used in II generation computers.
2. Expand the term MICR.
3. What do you mean by radix of a number system?
4. Define software.
5. What is Object Oriented Programming?
6. Who developed C++?
7. Define token.
8. Which operator is called stream extraction?
9. What is cascading?
10. What is the data type of subscript in an array?

PART B

II Answer any FIVE of the following questions.

5 x 2 = 10

Each question carries TWO marks.

11. What are the two categories of software?
12. Give the difference between hardcopy and softcopy.
13. Name the two methods of representing negative numbers using binary number system.
14. Give the flowchart symbol for input/output and decision making.
15. Explain any two benefits of OOPs.
16. Write the syntax and example for initialization of a variable in C++.
17. What are manipulators? Mention any one.
18. Give the difference between strcmp() and strcmpi() functions.

P T O

PART C

III Answer any FIVE of the following questions.

5 x 3 = 15

Each question carries THREE marks.

19. Give any three characteristics of non-impact printers.
20. Convert 56_{10} to Binary, Octal and Hexa-decimal number systems.
21. Mention any two differences of compilers and interpreters.
22. Explain the characteristics of a good program.
23. How is flowchart important? Explain.
24. Mention the rules for naming an identifier.
25. Explain the working of 'simple if' statement.
26. Write a program segment to input data elements into a single dimensional array.

PART D

IV Answer any SEVEN of the following questions.

7 x 5 = 35

Each question carries FIVE marks.

27. Explain the applications of computers in brief.
28. Write a short note on keyboard and MOUSE devices.
29. Subtract $13_{(10)}$ from $35_{(10)}$ using 2's complement method.
30. What are the functions of operating system? Explain.
31. Briefly explain the various stages of problem solving.
32. What do you mean by debug? Explain various types of errors.
33. Explain the characteristics of C++ programming language.
34. Write the general structure of C++ program and explain with an example.
35. Give the general form of if-else-if statement and explain with example.
36. Explain DO-WHILE construct with suitable program example.
37. What is an array? Give the declaration and initialization of two-dimensional array.
