

**KARNATAKA STATE PRE-UNIVERSITY EDUCATION**  
**I PU Computer Science Blueprint**

<b>Chapters</b>	<b>Hrs</b>	<b>Description</b>	<b>VSA (1 Mark)</b>	<b>SA (2 Marks)</b>	<b>LA (3 Marks)</b>	<b>E (5 Marks)</b>	<b>Total Marks</b>
1	8	Overview of Computers	1(mcq)	1	----	1	08
2	8	Input Output and Memory units	2(mcq)	1	1	-----	07
3	9	Data representation	1(mcq)	-----	1	1	09
4	5	Software Concepts	-----	1	1	-----	05
5	15	Problem solving Methodology	2(mcq)	1	1	1	12
6	2	Object Oriented Concepts	-----	1	-----	-----	02
7	12	Introduction to C++	1(mcq) (1 fill-in Blank)	-----	1	1	10
8	2	Data types	-----	1	-----	-----	02
9	4	Input output operators	1(mcq) (1 fill-in Blank)	-----	1	-----	05
10	10	Control Statements	1(mcq) (1 fill-in Blank)	-----	-----	2	12
11	8	Arrays	1(mcq) (1 fill-in Blank)	-----	1	1	10
12	2	Functions (Library functions)	-----	1	-----	-----	02
13	8	User defined Functions	2(mcq) (1 fill-in Blank)	-----	-----	1	08
14	2	Structures	-----	-----	1	-----	03
15	5	Word Processing	1(mcq)	1	-----	-----	03
16	15	Spreadsheets	2(mcq)	-----	-----	2	12
17	5	Web designing	-----	-----	-----	1	05
		Total Marks	10+10	16	24	55	115
		Total No of Questions to be answered	1x20=20	2x4/8=8	3x4/8=12	5x6/11=30	70/47

- NOTE:**
1. Questions should be direct
  2. The answers should be present in the prescribed textbook by PUE
  3. 40% - Simple, 40% - Average and 20% - Difficult questions
  4. Questions should be according to Blueprint

# I PUC COMPUTER SCIENCE MODEL PAPER

TIME: 3 Hours 15 minutes

Max. marks: 70

Total Questions: 47

## PART – A

Answer all the questions. Each question carries one mark.

20 x 1 = 20

I Select the correct answer from the choices given: (*Repeated answers will not be considered*)

1. Which of the following is not considered hardware?
  - a) Operating system
  - b) CPU
  - c) Keyboard
  - d) Hard disk.
2. The following is not an output device.
  - a) Scanner
  - b) VDU
  - c) Speaker
  - d) Printer
3. What is smallest unit of the information?
  - a) A bit
  - b) A byte
  - c) A block
  - d) A nibble
4. Which of the following is not an Octal number?
  - a) 145
  - b) 178
  - c) 111
  - d) A123
5. What is the first step in solving a problem?
  - a) Analysis
  - b) Solution
  - c) Coding
  - d) Problem definition
6. Algorithm is a
  - a) Step-by-step process for a program
  - b) Step-by-step process for a flowchart
  - c) Step-by-step process for a solution
  - d) Step-by-step process for Coding
7. Which of the following is a keyword?
  - a) Person
  - b) Variable
  - c) Identifier
  - d) for
8. Give the header file that holds setw() and endl.:
  - a) <stdio.h>
  - b) <string.h>
  - c) <iostream.h>
  - d) <iomanip.h>
9. The following is a selection statement:
  - a) if
  - b) if-else
  - c) switch()
  - d) all the above
10. What is the subscript data type of an array?
  - a) Integer
  - b) float
  - c) double
  - d) string

11. Select how user defined functions are invoked/called, from the following:
  - a) input statement
  - b) assignment statement
  - c) declaration
  - d) break statement
12. What does the keyword void represent?
  - a) returns many values
  - b) no return value
  - c) returns a single value
  - d) returns int or float value
13. Which item is printed at the bottom of each page.
  - a) Header
  - b) Foot Note
  - c) Title
  - d) Footer
14. Which of the following application software is used for making a resume?
  - a) MS Excel
  - b) MS Word
  - c) C++
  - d) Java
15. What is the intersection of a row and column in a worksheet called?
  - a) Column
  - b) Value
  - c) Address
  - d) Cell

**II Fill in the blanks choosing the appropriate word/words from those given in brackets.**

*Note: Repeated answers will not be considered*

(array, cout, main(), subprogram, break)

16. Every C++ program begins execution at the function \_\_\_\_\_.
17. The result will be displayed using \_\_\_\_\_ in C++.
18. \_\_\_\_\_ is a control statement.
19. To store many values in the same variable \_\_\_\_\_ is used.
20. User defined function is known as \_\_\_\_\_.

**PART – B**

**Answer any FOUR questions. Each question carries two marks.**

**4 x 2 = 8**

21. Write a short note on applications of computers in entertainment.
22. Mention any two types of ROM.
23. What is a system software? Give an example.
24. Define coding and testing.
25. Write any two characteristics of OOPS.
26. What is a variable? Give the declaration syntax for a variable.
27. Distinguish between isupper () and islower() functions in C++.
28. Differentiate between copy-paste and cut-paste options in word processor.

**PART – C**

**Answer any FOUR questions. Each question carries three marks.**

**4 x 3 = 12**

29. Give the characteristics of non-impact printers.
30. Convert  $37_{16}$  to Binary and to decimal.
31. Define
  - a) Assembler
  - b) Compiler
  - c) Loader
32. Explain sequence programming construct with an example.
33. Briefly explain any three relational operators in C++.
34. Explain cascading of input output operators with example for each.
35. Write memory representation of one-dimensional array.
36. Define a structure in C++. Explain with syntax and example.

**PART – D**

**Answer any SIX questions. Each question carries five marks.**

**6 x 5 = 30**

37. Explain the various functional units of a computer with a neat block diagram.
38. Subtract  $16_{10}$  from  $23_{10}$  using 1's complement.
39. Write an algorithm to find the sum of the digits in a given number.
40. Explain structure of C++ program with suitable programming example.
41. Explain if..else statement with a suitable programming example.
42. Differentiate between while and do-while loops.
43. What is 2-dimensional array? Give the syntax and example for declaring 2-dimensional array.
44. Explain the working of function with arguments and return value.
45. Mention various applications of spread sheet.
46. Explain any five built-in functions of ESS.
47. What is HTML? Explain any four HTML tags.

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