

Tsi11CS

Tenkasi District
Common Quarterly Examination - 2024



26-09-2024

Standard 11
COMPUTER SCIENCE

Time Allowed: 3.00 Hours

Maximum Marks: 70

I. Choose the correct answer from the given four alternatives: 15×1=15

- 1) Which generation of computer used IC's?
 - a) First generation
 - b) Second generation
 - c) Third generation
 - d) Fourth generation
- 2) 2^{40} referred as
 - a) Kilo
 - b) Tera
 - c) Peta
 - d) Zetta
- 3) Display devices are connected to the computer through
 - a) SCSI port
 - b) USB port
 - c) VGA port
 - d) PS/2 port
- 4) Which of the following is single user operating system?
 - a) Linux
 - b) MS-DOS
 - c) UNIX
 - d) Windows
- 5) Which command is used to 'past'?
 - a) Edit → Paste
 - b) View → Paste
 - c) Fill → Paste
 - d) File → Paste
- 6) How many times the loop is iterated?


```
i := 0
while i ≠ 5
i : i+1
```

 - a) 6
 - b) 4
 - c) 0
 - d) 5
- 7) Using the following recursive definition

$$a^n = \begin{cases} 1 & \text{if } n = 0 \\ a \times a^{n-1} & \text{otherwise} \end{cases}$$
 how many multiplications are needed to calculate a^{10} ?
 - a) 11
 - b) 10
 - c) 9
 - d) 8
- 8) Which of the following operator is extraction operator in C++?
 - a) >>
 - b) <<
 - c) <>
 - d) <<<
- 9) How many times the following loop will execute?


```
for (int i = 0; i < 5; i++)
```

 - a) 0
 - b) 5
 - c) 4
 - d) 6
- 10) In C++ _____ is used for pointer to a variable.
 - a) -
 - b) +
 - c) ÷
 - d) *
- 11) This can be used alternative to endl command
 - a) \o
 - b) \t
 - c) \n
 - d) \b
- 12) How many categories of data types are available in C++?
 - a) 3
 - b) 5
 - c) 2
 - d) 4
- 13) Which of the following statement is used to terminate the execution of the loop?
 - a) end
 - b) close
 - c) break
 - d) continue
- 14) The smallest individual unit in a program is
 - a) Tokens
 - b) Pseudocode
 - c) Algorithm
 - d) Flowchart
- 15) How many bytes of memory is allocated for the following variable declaration if you are using Dev C++?


```
short into X;
```

 - a) 1
 - b) 2
 - c) 4
 - d) 8

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II. Answer any six questions. Question No. 24 is compulsory: 6×2=12

- 16) List the encoding systems that represent characters in memory.
- 17) What is program counter?
- 18) $(BC9)_{16}$ - convert to equivalent Decimal number.
- 19) What is multi user operating system?
- 20) Define a loop variant.
- 21) What are the importance of void data type?
- 22) Write a note on break and continue statement in C++.
- 23) What is function abstraction?
- 24) Write the output for the following:

```
#include<iostream>
using namespace std;
int main( )
{
    int a=6;
    float b=3.14;
    cout<<a+b;
}
```

SIVAKUMAR.M,
Sri Ram Matric HSS,
Vallam - 627809
Tenkasi Dist.

III. Answer any six questions. Question No. 33 is compulsory: 6×3=18

- 25) Write the significance features of monitor.
- 26) Give the symbol and Truth table of XNOR gate.
- 27) List out the key features of operating system.
- 28) Write a note on Recycle bin.
- 29) When do you say that a problem is algorithmic in nature?
- 30) What is case analysis?
- 31) Describe the differences between Keywords and identifiers.
- 32) What are arithmetic operators in C++? Differentiate unary and binary arithmetic operators. Give example for each.
- 33) Write a short program to print the following series:
a) 1 4 7 10 40

IV. Answer all the questions in detail: 5×5=25

- 34) a) Discuss the various generation of computers.
(OR)
b) Explain the types of ROM.
- 35) a) List out the uses of operating system.
(OR)
b) Explain the versions of windows operating system.
- 36) a) What is an entry control loop? Explain any one of the entry controlled loop with suitable example.
(OR)
b) Explain the types of Errors in C++
- 37) a) Explain the fundamental and derived gates with expression and its truth table.
(OR)
b) Explain the control statement with suitable example.
- 38) a) Write a C++ program to display matrix multiplication table using nested for loop.
(OR)
b) Evaluate the following C++ expressions, where x, y, z are integers and m, n are floating point numbers. The value of x=5, y=4 and m = 2.5.
i) $n = x+y/x$ ii) $z = m*x+y$ iii) $z = (x++) * m+x;$