

CSI-140 Introduction to Programming

Test1

Fall 2025

Duration: 45 minutes


Max Marks: 30

Name: Section:





Date: Signature:

IMPORTANT INSTRUCTIONS









































How to Mark Correctly:









































- Use only blue or black ball point pen
- Fill the bubble completely and darkly
- Mark only ONE answer per question
- Correct marking: 

How NOT to Mark:

- Do not use pencil or gel pen
- Avoid these incorrect markings:
 - Tick mark: 
 - Cross mark: 
 - Partial fill: 
 - Light marking: 
- Do not mark multiple answers

ANSWER GRID

| Q.No. | A | B | C | D |
|-------|---|---|---|---|
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |

| Q.No. | A | B | C | D |
|-------|---|---|---|---|
| 11 |  |  |  |  |
| 12 |  |  |  |  |
| 13 |  |  |  |  |
| 14 |  |  |  |  |
| 15 |  |  |  |  |
| 16 |  |  |  |  |
| 17 |  |  |  |  |
| 18 |  |  |  |  |
| 19 |  |  |  |  |
| 20 |  |  |  |  |

Note: Questions 1 to 10 carries 1 Point each and Questions 11 to 20 carries 2 Points each.

FOR EXAMINER'S USE ONLY

Score: Comments: Signature:

Multiple Choice Questions

Part A: Basic Concepts (1 Point Each)

1. RAM is primarily used to:
 - A. Store data permanently
 - B. Provide quick access to instructions and data for the CPU
 - C. Store large volumes of files over time
 - D. Handle user input
2. Mainframes are primarily used for:
 - A. Playing video games
 - B. Handling thousands of users and critical business applications
 - C. Simple word processing tasks
 - D. Developing small mobile apps
3. A compiler is a program that:
 - A. Translates code line-by-line while executing
 - B. Produces an executable file after translating source code
 - C. Works only with assembly language
 - D. Requires no machine code
4. Which phase of the Software Development Life Cycle involves debugging and ensuring requirements are met?
 - A. Requirements and Design
 - B. Implementation
 - C. Testing
 - D. Deployment
5. Which of the following is an example of modularity in program design?
 - A. Writing one very large function
 - B. Breaking a program into smaller functions and modules
 - C. Writing code without comments
 - D. Using a single file for the entire project

6. The Hexadecimal equivalent of the binary number $(01010110110)_2$ is:
- A. $(2D6)_{16}$
 - B. $(56C)_{16}$
 - C. $(6B2)_{16}$
 - D. $(2B6)_{16}$
7. Which of the following is a valid identifier in C++?
- A. `2variable`
 - B. `my-var`
 - C. `_count`
 - D. `return`
8. Which operator is used for division in C++?
- A. `%`
 - B. `/`
 - C. `//`
 - D. `div`
9. Which keyword is used to declare a constant variable?
- A. `constant`
 - B. `const`
 - C. `final`
 - D. `static`
10. What happens when you divide an integer by zero in C++?
- A. Returns 0
 - B. Returns infinity
 - C. Compilation error
 - D. Runtime error/undefined behavior
11. Which operator has the highest precedence?
- A. `+`
 - B. `>=`
 - C. `*`
 - D. `&&`

12. What is the output of the following code?

```
#include <iostream>
using namespace std;
int main() {
    int x = 5;
    cout << "x" << endl;
    cout << x + 3 << endl;
    return 0;
}
```

- A. 5
8
- B. x
x+3
- C. "x"
8
- D. x
8

13. What is the output of the following code?

```
#include <iostream>
using namespace std;
int main() {
    int x = 15/4;
    double y = 15/4;
    cout << x << ", "<<y<< endl;

    x = 15/4.0;
    y = 15/4.0;
    cout << x << ", "<<y<< endl;

    return 0;
}
```

- A. 3,3.75
3,3.75
- B. 3,3
3,3.75
- C. 3,3.0
3.0,3.75
- D. 3,3
3.0,3.75

14. What is the output of the following code?

```
#include <iostream>
using namespace std;
int main() {
    int x = 5, y = 10;
    cout << (x < y) << endl;
    cout << (x == 5) << endl;
    cout << (x != y) + (x <= y) << endl;
    return 0;
}
```

A. 0

0

2

B. 1

1

2

C. 1

1

1

D. 0

1

2

15. What is the output of the following code?

```
#include <iostream>
using namespace std;
int main() {
    int a = 3, b = 7, c = 5;
    cout << ((a + b) > (c * 2) && (b - a) == 4) << endl;
    cout << (!(a > c) && ((b % c) != 0)) << endl;
    cout << ((a * a) < 10 || (b / c) > 1 && (c - a) == 2) << endl;

    return 0;
}
```

A. 0

1

1

B. 1

1

0

C. 0

0

1

D. 1

0

1

16. Convert the decimal number **8547**₁₀ to binary.
- A. 10000101100011₂
 - B. 10000101100111₂
 - C. 10000111100011₂
 - D. 10001001100011₂
17. Convert the decimal number **63587**₁₀ to hexadecimal.
- A. F863₁₆
 - B. F683₁₆
 - C. E863₁₆
 - D. F86E₁₆
18. Convert the binary number **1101011101**₂ to decimal.
- A. 861₁₀
 - B. 859₁₀
 - C. 863₁₀
 - D. 857₁₀
19. Convert the hexadecimal number **FACE5**₁₆ to decimal.
- A. 1027813₁₀
 - B. 1027301₁₀
 - C. 1027303₁₀
 - D. 1027811₁₀
20. Add the following binary numbers: **101110101**₂ + **110101011**₂
- A. 1100100000₂
 - B. 1100011000₂
 - C. 1100100010₂
 - D. 100100000₂