University of Toronto, Department of Electrical and Computer Engineering
ECE 1724-F1 — Performant Software Systems with Rust

Quiz 1 — Multiple Choice Questions

Wednesday, September 23, 2026, 16:55 — 17:00

Instructions: Choose exactly one answer per question. Unless a complete program is shown, assume the code is inside `fn main()`.

1. What does this code print?

```
let word = "cat";
let word = word.len();
let word = word + 1;

println!("{word}");
```

Ⓐ `3`
Ⓑ `4`
Ⓒ `cat1`
Ⓓ It does not compile.

2. What does this code print?

```
let mut x = 3;
let y = {
    x += 1;
    x * 2
};

println!("{x} {y}");
```

Ⓐ `3 8`
Ⓑ `4 4`
Ⓒ It does not compile.
Ⓓ `4 8`

3. What happens when this code is compiled and run?

```
let count = 1;

if count {
    println!("yes");
} else {
    println!("no");
}
```

Ⓐ It does not compile.
Ⓑ It prints `yes`.
Ⓒ It prints `no`.
Ⓓ It compiles but panics.

4. What does this code print?

```
let mut a = [2; 4];
a[1] = 5;
let pair = (a[0], a[1]);

println!("{} {}", pair.0, pair.1);
```

Ⓐ `5 2`
Ⓑ `2 2`
Ⓒ `2 5`
Ⓓ It does not compile.

5. Why does this code fail to compile?

```
let first = String::from("blue");

{
    let second = first;
    println!("{second}");
}

println!("{first}");
```

Ⓐ `second` must be mutable.
Ⓑ Strings cannot be moved into inner blocks.
Ⓒ `println!` requires a string literal only.
Ⓓ Leaving the block does not undo the move.