

## Study Skills 101

### Sample Set

2026-02-23

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Name: \_\_\_\_\_ Student ID: \_\_\_\_\_

**Instructions:** This exam contains 4 question(s) for a total of 9.0 points. Show all work where applicable. Point values are indicated for each problem.

1. (2.0 pts)

Solve  $x^2 - 5x + 6 = 0$ . Which option contains all real roots?

- (A)  $x = 1, 2$
- (B)  $x = 2, 3$
- (C)  $x = -2, -3$
- (D)  $x = 3, 6$

2. (3.0 pts)

Read the following code and state what it prints.

```
total = 0
for i in range(1, 5):
    total += i
print(total)
```

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3. (2.0 pts)

Which OOP principle hides internal implementation details behind a public interface?

- (A) Inheritance
- (B) Polymorphism
- (C) Encapsulation
- (D) Abstraction leakage

4. (2.0 pts)

State one benefit of creating a weekly study schedule.