

# Python Institute PCAT-31-01

Python Institute Certified Associate Tester with Python

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# Latest Version: 6.0

## Question: 1

Which is the primary benefit of using `expectedFailure`?

- A. Mark known failing tests
- B. Skip test execution
- C. Improve performance
- D. Replace assertions

**Answer: A**

## Question: 2

What is the problem?

```
def test():  
    assert compute()
```

- A. Syntax error
- B. Assertion too weak
- C. Too many assertions
- D. Invalid function

**Answer: B**

## Question: 3

Which of the following violate the AAA (Arrange-Act-Assert) pattern?  
(Select all that apply)

- A. Mixing assertions within setup code
- B. Performing multiple actions before assertion
- C. Separating setup and execution clearly
- D. Embedding logic inside assertions

**Answer: A,B,D**

## Question: 4

Which of the following correctly apply the DRY principle in test code?  
(Select all that apply)

- A. Reusing common setup logic
- B. Copy-pasting test data across tests
- C. Creating reusable helper functions
- D. Centralizing test data definitions

**Answer: A,C,D**

### Question: 5

What will be the output?

```
def func(x):  
    assert x != 0, "Zero not allowed"  
    return 10 / x  
print(func(0))
```

- A. ZeroDivisionError
- B. AssertionError: Zero not allowed
- C. None
- D. 0

**Answer: B**

### Question: 6

A system passes all defined test cases but fails in production under real-world conditions. Which principle best explains this situation?

- A. Exhaustive testing is possible
- B. Defect clustering
- C. Absence-of-errors fallacy
- D. Early testing

**Answer: C**

### Question: 7

What is the purpose of setUp() in unittest?

- A. To execute tests
- B. To define test cases
- C. To clean resources after tests
- D. To initialize test data before each test

**Answer: D**

### Question: 8

Which of the following are true about assertions?  
(Select all that apply)

- A. They replace unit tests
- B. They are used for debugging
- C. They can be disabled with optimization flags
- D. They raise AssertionError when false

**Answer: B,C,D**

### Question: 9

A developer fixes a defect, but additional defects appear in the same module. Which principle is demonstrated?

- A. Early testing
- B. Defect clustering
- C. Pesticide paradox
- D. Context-dependent testing

**Answer: B**

### Question: 10

Consider the following code:

```
def process(value):  
    if value:  
        return "Valid"  
    return "Invalid"
```

Which test set is most effective for revealing edge-case behavior?

- A. process(0), process(None), process("")
- B. process(True), process(False)

- C. process(1), process(2)
- D. process("text")

|                  |
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| <b>Answer: A</b> |
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