Test

Python String Formatting (F-Strings) - Test

Part A: Multiple Choice Questions (MCQs)

Choose the correct answer for each question:

1. What is the main benefit of using f-strings in Python?

   a) They are faster than other formatting methods

   b) They support older versions of Python

   c) They do not require variables

   d) They use the `%` symbol

2. Which of the following is the correct syntax for using an f-string?

   a) `f"Hello" + name`

   b) `"Hello {}".format(name)`

   c) `f"Hello {name}"`

   d) `"Hello %s" % name`

3. What will be the output of this code?

```
name = "Alice"
age = 30
print(f"{name} is {age} years old")
```

   a) Alice is 30 years old

   b) {name} is {age} years old

   c) name is age years old

   d) Error

4. Which Python version introduced f-strings?

   a) 2.7

   b) 3.0

   c) 3.5

   d) 3.6

5. Can f-strings contain expressions inside the curly braces `{}`?

   a) No

   b) Only arithmetic expressions

   c) Yes, any valid Python expression

   d) Only variable names

Part B: Practical Questions

1. **Create a variable `name = "John"` and `score = 95`. Use an f-string to print "John scored 95 marks".**
2. **Write a function `greet(name, time)` that prints a message like "Good morning, Alice!" using f-strings.**
3. **Use an f-string to print the result of a mathematical expression like "5 + 10 = 15".**
4. **Create a list `fruits = ["apple", "banana", "cherry"]` and use a loop with an f-string to print each fruit with its index.**
5. **Use an f-string to print today's date in the format "Today is DD-MM-YYYY" using the `datetime` module.**
