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Absolutely! 😊🔥 Here's Q5: Definitions with Examples — all 25 questions answered using:

- ✓ Original questions from your PDF
- ✓ Clear, simple definitions
- ✓ Real-life examples or code
- ✓ Fun emojis + bullets for readability
- ✓ Straight-to-the-point style

Let's go! 🚀🐍

## ★ Q5: Definitions with Examples 📖🧠

### 1. What is interpreter?

📌 Definition: An interpreter is a program that reads and executes code line by line, instead of compiling the entire program at once.

📌 Example: Python uses an interpreter. If there's an error on line 5, it won't run beyond that.

```
python
```

```
print("Hello")
print(5 / 0) # Error stops here
print("World") # Not executed
```

### 2. Why Python is called a high-level language?

📌 Definition: Python is a high-level language because it's easy to read and write, closer to human language, and hides low-level memory management.

📌 Example:

```
python

name = "Alice" # Simple syntax
print(name)
```

### 3. What is the use of IDLE?

📌 Definition: IDLE (Integrated Development and Learning Environment) is Python's built-in GUI to write, run, and test Python code.

📌 Example: You can write `print("Hello")` in IDLE and run it directly with a click.

### 4. What is the use of indentation in Python?

📌 Definition: Indentation is used in Python to define blocks of code like loops, functions, and conditionals.

📌 Example:

```
python

if True:
    print("Indented block") # Must be indented
```

### 5. What is input()?

📌 Definition: `input()` is a function to take user input as a string.

📌 Example:

```
python

name = input("Enter your name: ")
```

```
print("Hello", name)
```

## 6. What is output?

📌 Definition: Output is the information displayed on the screen using `print()` or similar functions.

📌 Example:

```
python
```

```
print("Hello, world!")
```

## 7. What is the use of print() in Python?

📌 Definition: `print()` is used to display text, numbers, or results on the screen.

📌 Example:

```
python
```

```
print("The result is", 5 + 3)
```

## 8. What is variable?

📌 Definition: A variable is a named container that stores a value.

📌 Example:

```
python
```

```
age = 20  
name = "John"
```

## 9. What is data type?

📌 Definition: A data type defines the type of value a variable holds (e.g., int, float, str).

📌 Example:

```
python
```

```
x = 10    # int  
y = 3.14  # float  
z = "Hi"  # string
```

## 10. What is string in Python?

📌 Definition: A string is a sequence of characters, enclosed in quotes ( ' ' or " " ).

📌 Example:

```
python
```

```
message = "Hello, Python!"
```

## 11. What is int data type?

📌 Definition: `int` stores whole numbers (positive or negative).

📌 Example:

```
python
```

```
x = 25
```

## 12. What is float data type?

📌 Definition: `float` stores decimal numbers.

📌 Example:

```
python
```

```
pi = 3.14159
```

### 13. What is Boolean data type?

📌 Definition: Boolean represents True or False values.

📌 Example:

```
python
```

```
is_sunny = True
```

### 14. What is list?

📌 Definition: A list is an ordered collection of items, enclosed in square brackets `[]`.

📌 Example:

```
python
```

```
fruits = ["apple", "banana", "mango"]
```

### 15. What is tuple?

📌 Definition: A tuple is like a list, but immutable (cannot change values).

📌 Example:

```
python
```

```
colors = ("red", "green", "blue")
```

### 16. What is dictionary in Python?


📌 Definition: A dictionary stores data as key-value pairs, like a real dictionary 📖.


📌 Example:

```
python
```

```
student = {"name": "Alice", "age": 20}
```

## 17. What is operator?


 Definition: An operator is a symbol that performs an operation on variables/values.


 Example:

```
python
```

```
a = 5 + 3  # + is an operator
```

## 18. What is arithmetic operator?

 Definition: Used to perform math operations like `+`, `-`, `*`, `/`.

 Example:

```
python
```

```
print(10 - 5)  # Subtraction
```

## 19. What is assignment operator?

 Definition: Used to assign values to variables using `=`, `+=`, etc.

 Example:

```
python
```

```
x = 10  
x += 5  # x becomes 15
```

## 20. What is relational operator?

📌 Definition: Used to compare values, returns Boolean ( True/False ).

📌 Example:

```
python
```

```
print(5 > 3) # True
```

## 21. What is logical operator?

📌 Definition: Used to combine Boolean expressions: and , or , not .

📌 Example:

```
python
```

```
print(True and False) # False
```

## 22. What is conditional statement?

📌 Definition: Conditional statements are used to make decisions in code using if , elif , else .

📌 Example:

```
python
```

```
if age > 18:  
    print("Adult")  
else:  
    print("Minor")
```

## 23. What is loop?

📌 Definition: A loop is used to repeat a block of code ( for , while ).

📌 Example:

```
python
```



```
for i in range(3):  
    print("Hi!")
```

## 24. What is function?

📌 Definition: A function is a block of code that performs a task and can be reused.

📌 Example:

```
python  
  
def greet():  
    print("Hello!")  
  
greet()
```

## 25. What is algorithm?

📌 Definition: An algorithm is a step-by-step process to solve a problem.

📌 Example: 📋 To add two numbers:

1. Take input
2. Add them
3. Show result

```
python  
  
a = 5  
b = 7  
print(a + b)
```

✅ Q5: All 25 done! 🎉 Super clear, simple, and full of mini examples!

Let me know if you'd like this converted to a printable or PDF format next! 📄 ✨