

Module 120: Programming Languages: Control Structures (if-statement examples)

1. What is the condition for a student to qualify for a scholarship in the given program?

- a) $CGPA > 3.5$
- b) $CGPA \leq 3.0$
- c) $CGPA \geq 3.0$
- d) $CGPA < 3.0$
- **Correct Answer: c) $CGPA \geq 3.0$**

Module 121: Programming Languages: Control Structures (Loops)

2. How many times will the loop in the provided example execute?

- a) 1
- b) 3
- c) 5
- d) Infinite
- **Correct Answer: c) 5**

3. In the loop, what is the initial value of "i"?

- a) 0
- b) 1
- c) 2
- d) 5
- **Correct Answer: b) 1**

Module 122: Programming Languages: Programming Concurrent Activities

4. What is the term used for simultaneous execution of multiple activations in programming?

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- a) Concurrency
- b) Multitasking
- c) Parallel processing
- d) Sequential execution
- **Correct Answer: c) Parallel processing**

5. In the context of parallel processing, what does "thread" refer to in Java?

- a) A spaceship
- b) A program
- c) A loop
- d) A concurrent activity
- **Correct Answer: d) A concurrent activity**

Module 123: Programming Languages: Arithmetic Operators Examples

6. What does the modulus operator (%) do in C-language?

- a) Adds two numbers
- b) Subtracts two numbers
- c) Divides two numbers
- d) Returns the remainder
- **Correct Answer: d) Returns the remainder**

7. How does the division operator (/) behave when both operands are integers in C-language?

- a) Rounds to the nearest integer
- b) Truncates the decimal point
- c) Always results in a decimal
- d) Multiplies the operands
- **Correct Answer: b) Truncates the decimal point**

Module 124: Programming Languages: Relational Operators Examples

8. In C++, what value does the if statement return if the result after comparison is True?

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- a) 0
- b) 1
- c) True
- d) False

• **Correct Answer: b) 1**

9. Which operator is used to check whether two variables are equal in C++?

- a) >=
- b) ==
- c) !=
- d) <=

• **Correct Answer: b) ==**

Module 124: Programming Languages: Relational Operators Examples (Continued)

10. What does the != (Not Equal To) operator do in C++?

- a) Checks if two variables are not equal
- b) Checks if two variables are equal
- c) Compares the size of two variables
- d) Adds two variables

• **Correct Answer: a) Checks if two variables are not equal**

11. What type of value does the if statement return if the result after comparison is False?

- a) True
- b) 1
- c) 0
- d) False

• **Correct Answer: c) 0**

Module 123: Programming Languages: Arithmetic Operators Examples (Continued)

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12. What does the expression $5.0/2.0$ result in, according to the provided information in C-language?

- a) 2
- b) 2.5
- c) 3
- d) 1

• **Correct Answer: b) 2.5**

13. How is the result of $5/2$ obtained in C-language?

- a) 2
- b) 2.5
- c) 3
- d) 1

• **Correct Answer: a) 2**

Module 122: Programming Languages: Programming Concurrent Activities (Continued)

14. What is the term for the basic action that must be expressed in a program involving parallel processing?

- a) Creating threads
- b) Blocking threads
- c) Looping
- d) Conditional statements

• **Correct Answer: a) Creating threads**

15. What is the purpose of implementing mutually exclusive access in parallel processing?

- a) To enhance communication
- b) To speed up execution
- c) To avoid conflicts in shared data
- d) To allow unlimited access to data

• **Correct Answer: c) To avoid conflicts in shared data**

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