

Information Technology Systems: Execution and Number Systems

Computer Science · Answer Key · 10 Questions

1. Which number system uses digits 0-9 and letters A-F?

- A) Decimal
- B) Binary
- C) Octal
- D) Hexadecimal**

2. What is the base of the binary number system?

- A) 2**
- B) 8
- C) 10
- D) 16

3. Which tool combines multiple object files into a single executable?

- A) Compiler
- B) Loader
- C) Linker**
- D) Assembler

4. What is the primary role of a loader in program execution?

- A) Compiling source code
- B) Linking libraries
- C) Loading program into memory**
- D) Translating binary to text

5. In the hexadecimal system, what value does the letter 'F' represent?

- A) 10
- B) 12
- C) 14
- D) 15**

6. What are the two types of linking mentioned?

- A) Static and Dynamic**
- B) Fixed and Relocating
- C) Binary and Decimal
- D) Primary and Secondary

7. Which number system is most commonly used by humans?

- A) Binary
- B) Octal
- C) Decimal**
- D) Hexadecimal

8. What is the correct sequence of program translation?

- A) Binary -> Assembly -> High-level
- B) High-level -> Assembly -> Binary**
- C) Assembly -> High-level -> Binary
- D) Binary -> High-level -> Assembly

9. An absolute loader is characterized by what?

- A) Dynamic memory allocation
- B) Fixed memory locations**
- C) Linking at runtime
- D) Using only binary code

10. How many digits are used in the octal number system?

- A) 2
- B) 8**
- C) 10
- D) 16