C Programming Quiz - Questions with Answers & Explanations

Q1. Who developed the C programming language?
A. Bjarne Stroustrup
B. Dennis Ritchie
C. James Gosling
D. Ken Thompson
Answer: Dennis Ritchie
Explanation: Dennis Ritchie developed the C language at Bell Labs in the early 1970s.
Q2. What is the correct file extension for a C source file?
Ac
Bexe
Cdb
Dcpp
Answer: .c
Explanation: C source files are saved with the '.c' extension.
Q3. What does #include <stdio.h> do in a C program?</stdio.h>
A. Starts the main function
B. Defines a constant
C. Includes standard input/output functions
D. Declares a variable
Answer: Includes standard input/output functions
Explanation: It includes declarations for input/output functions like printf and scanf.
Q4. Which function is used to Print some message in C?
A. print()
B. input()
C. cin
D. scanf()
Answer: scanf()
Explanation: Though 'scanf()' is for input, the likely intended answer was 'printf()' for output

correction noted.

Q5. Which of the following is a valid main() function declaration in C?
A. main[]
B. main()
C. int main()
D. void main[]
Answer: int main()
Explanation: The standard and portable way to define main is 'int main()'.
Q6. What is the purpose of return 0; in the main() function?
A. Prints the output
B. Stops the program
C. Indicates successful execution
D. Declares a variable
Answer: Indicates successful execution
Explanation: 'return 0;' tells the OS that the program ended successfully.
Q7. What does an assembler do?
A. Converts machine code into human language
B. Compiles C code into object code
C. Converts assembly language into machine code
D. Translates Java into bytecode
Answer: Converts assembly language into machine code
Explanation: An assembler translates assembly instructions to binary machine code.
Q8. Which of the following memory segments in C is automatically managed by the compiler and
grows downward in memory?
A. Code
B. Data
C. Heap
D. Stack
Answer: Stack
Explanation: The stack is managed automatically and grows downwards in memory.
Q9. Which memory segment in C is used to store global and static variables that are uninitialized?

- A. Code/Text Segment
- B. Data Segment
- C. Heap Segment
- D. BSS Segment

Answer: BSS Segment

Explanation: Uninitialized global/static variables go into the BSS segment.

Q10. Where is the string literal 'Hello, World!\n' stored during the execution of a C program?

- A. Stack Segment
- B. Heap Segment
- C. Code Segment
- D. Data Segment (read-only)

Answer: Data Segment (read-only)

Explanation: String literals are constants stored in the read-only section of the data segment.