FACE **Focus Academy for Career Enhancement**
An IIM Graduates' Enterprise

TECHNICAL

Certain questions are self-explanatory. Thus detailed solutions are provided only wherever required.

1. #include is called
a. Pre processor directive   b. Inclusion directive
c. File inclusion directive   d. None of the mentioned

Answer: A

2. The format identifier '%i' is also used for _____ data type?
a. char   b. Int   c. Float   d. double

Answer: B

3. What is the size of an int data type?
a. 4 Bytes
b. 8 Bytes
c. Depends on the system/compiler
d. Cannot be determined

Answer: C

Explanation:
The size of the data types depend on the system.

4. Which of the following cannot be a structure member?
a. Another structure   b. Function
c. Array   d. None of the mentioned

Answer: B

5. Which of the following structure declaration will throw an error?
a. struct temp{}s;
   main(){}
b. struct temp{};
   struct temp s;
   main(){}
c. struct temp s;
   struct temp{};

main(){}
d. None of the mentioned

Answer: D

6. For the following expression to work, which option should be selected. (In C)
 string p = "HELLO";
a. typedef char [] string;
b. typedef char * string;
c. Both (a) and (b)
d. Such expression cannot be generated in C

Answer: B

7. What is the default return-type of getchar()?
a. int
b. char
c. char*
d. Reading character doesn't require a return-type

Answer: A

8. The value of EOF is_____.
a. 1   b. 0   c. -1   d. 10
Answer: C

9. If there is any error while opening a file, fopen will return?
a. Nothing   b. EOF
c. Depends on compiler   d. NULL

Answer: D

10. union test
    {
    int x;
    char arr[8];
    int y;
    };
    int main()
    {
    printf("%d", sizeof(union test));
    return 0;
    }

Predict the output of above program. Assume that the size of an integer is 4 bytes and size of character is 1 byte. Also assume that there is no alignment needed.
a. 8   b. 16   c. 12   d. Compiler error
Answer: A

Explanation:
 When we declare a union, memory allocated for a union variable of the type is equal to memory needed for the largest member of it, and all members share this same memory space. In above example, "char arr[8]" is the largest member. Therefore size of union test is 8 bytes.