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| **TEST CODE : TCS17-02T**  Total number of question : 10  Test duration (min) : 20 min  Correct attempt (mark) : 1  Wrong attempt (mark) : Nil |

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**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.