

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

## 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;  
}
```

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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.

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