C quiz questions with answers - Storage classes MCQs

1.

Regarding the scope of the variables identify the incorrect statement:

[A] Automatic variables are automatically initialized to 0

[B] Static variables are automatically initialized to 0

[C] The address of a register variable is not accessible

[D] Static variables cannot be initialized with any expression

Answer & Explanation

Answer: Option [A]

By default Automatic variables are initialized to Garbage value.

2.

What will be the output of the following code segment?

```c
void fn()
{
    static int i=10;
    printf("%d", ++i);
}

main()
{
    fn();
    fn();
    fn();
}
```

[A] 10 10

[B] 11 11

[C] 11 12

[D] 12 12

Answer & Explanation

Answer: Option [C]
3. Which of the following is not a proper storage class in 'C'?  
[A] auto  
[B] dec  
[C] static  
[D] extern  

Answer & Explanation  
**Answer: Option [B]**  
The storage classes in C are auto, extern, static and global. dec is not a storage class.

4. What is the output of the following code?  
```c  
main()  
{  
  static int num=8;  
  printf("%d",num=num-2);  
  if(num!=0)  
    main();  
}  
```

[A] 8 6 4 2  
[B] Infinite output  
[C] 6 4 2 0  
[D] invalid because main function cannot call itself  

Answer & Explanation  
**Answer: Option [C]**
5. Value of static storage variable

[A] changes during different function calls

[B] persists between different function calls

[C] increases during different function calls

[D] decreases during different function calls

Answer & Explanation

Answer: Option [B]