C Pointer MCQs - Multiple Choice Questions with Answers

1.

Given the following code fragment:

- main()
- {
-   int row[20],i,sum=0;
-   int *p=row;
-   for(i=0;i<20;i++)
-     *(p+i)=1;
-   for(i=0;i<20;i+=sizeof(int))
-     sum+=*(p+i);
-   printf("sum=%d\n",sum);
- }

What will be the result of execution?

[A] sum=10
[B] sum=40
[C] sum=60
[D] sum=190

Answer & Explanation

Answer: Option [A]

2.

What is the missing statement in the following function which copies string x into string y?

- void strcpy (char *x, char *y)  
- {
-   while (*y!='\0')
-     .................. /*missing statement*/
-   *x='\0';
- }

What will be the result of execution?

[A] x=y
Answer & Explanation

Answer: Option [B]

Pointer variable char *x is pointing to a location and the char *y is assigned to that location. If we assume the missing statement is *x++=*y++ then both the variables point to the next respective location till null ('\0') found.

3.
- char *ptr;
- char myString[]="abcdefg";
- ptr=myString
- ptr+=5;

The pointer ptr points to which string?

[A] fg
[B] efg
[C] defg
[D] cdefg

Answer & Explanation

Answer: Option [A]

ptr+=5 means ptr=ptr+5

That means the pointer variable is incremented by 5. Hence it is pointing to the 6th location. i.e. fg

4.

Output of the following program will be

main()
{
 int a[]={1,2,9,8,6,3,5,7,8,9};
 int *p=a+1;
 int *q=a+6;
 printf("%d",q-p);
}

[A] 9
5.

Given float *pf; int *pi; Which of the following is true?

[A] sizeof(pf) > sizeof(pi)
[B] sizeof(pi) < sizeof(pf)
[C] sizeof(pf) == sizeof(pi)
[D] None of these above

Answer & Explanation

Answer: Option [C]