**Quiz 7**

**Total Marks: 10**

**Bonus Question Marks: 10**

**Q1. Which of the following is illegal?**

1. int \*ip;
2. string s, \*sp = 0;
3. int i; double\* dp = &i;
4. int \*pi = 0;

###### Q2. What will happen in the following C++ code snippet?

|  |
| --- |
| int a =100, b =200;  int \*p = &a, \*q = &b ;  p = q |

1. b is assigned to a
2. p now points to b
3. a is assigned to b
4. q now points to a

###### Q3. What will be the output of the following C++ code?

|  |
| --- |
| #include <iostream>  using namespace std;  int main() {  char arr[20];  int i;  for (i = 0; i < 10; i++)  {\*(arr + i) = 65 + i;}  \*(arr + i) = '\0';  cout << arr;    return 0;  } |

1. ABCDEFGHIJ
2. AAAAAAAAAA
3. JJJJJJJJ
4. AAAAAAJJJJ

###### Q4. What will be the output of the following C++ code?

|  |
| --- |
| #include <iostream>  using namespace std;  int main() {  int arr[] = {4, 5, 6, 7};  int \*p = (arr + 1);  cout << \*arr + 9;  return 0;  } |

###### 12

###### 15

###### 13

###### error

###### Q5: What will be the output of the following C++ code?

|  |
| --- |
| #include <iostream>  using namespace std;  int main() {  int \*p=new int [5];  for(int i=0; i<5; i++)  {  cin>> \*(p+i); //assume input values are 30 5 10 15 20  }  for(int i=0; i<5; i++)  {  cout << p[i];  }  } |
| Output: |

**[BONUS QUESTION]**

Write the output of the following recursive program.

#include <iostream>

using namespace std;

int fun(int x) {

   if (x==1 || x==0) {

      return x;

   }

else {

      return fun (x-1) + fun(x-2);

   }

}

int main()

{

int n=3;

cout<<fun(n);

}

**Output:**

|  |
| --- |
|  |