National University of Computer and Emerging Sciences, Lahore Campus



Course:	Computer Programming Lab	Course Code:	CL103
Program: Duration:	BS(Computer Science) 60 minutes	Semester: Total Marks:	Fall 2018 35
Paper Date:	12-Oct-2018	Weight	
Section: Exam:	C Quiz 1	Page(s): Roll No:	2

Question #1

Write Output of following code segments. (6+5)

(1.a)

(1.b)

```
int num = 10;
                                //there is no error in code
                                                                   Output
    //adress of num = 0x100
    int *iptr = #
                                int * iptr;
     //address of iptr = 0x500 cout << sizeof(iptr) << "</pre>
                                                                   4 4
     int ** ptr = &iptr;
                                                                   48
     //address of ptr = 0x900
                                sizeof((*iptr)) << endl;</pre>
     int ***tptr = &ptr;
                                double * dptr;
                                                                   4 1
     //address of tptr = 0x000
                                cout << sizeof(dptr) << " "</pre>
     cout << iptr << endl;</pre>
                                <<sizeof((*dptr)) << endl;
      cout << (*tptr) << endl; char * cptr;</pre>
      cout << (**tptr) << endl;</pre>
      cout << &(**tptr) << endlcout << sizeof(cptr) << " "
     cout << *(&(**tptr)) <<
                               << sizeof((*cptr)) << endl;</pre>
     cout << *(* &(**tptr) )
     endl; return 0;
}
```

Question #2

Write output against each of the following in proper format? (Write G for garbage value, if any). (10)

```
class QuizA {
                                                     QuizA a1; QuizA a2(5);
                                                     cout<<a1.getN1()<<","<<a1.getN2()<<endl;
cout<<a2.getN1()<<","<<a2.getN2()<<endl;</pre>
int n1, n2;
public:
                                                     a1.setN1(7); a2.swap();
    QuizA() {
                n1=3; }
QuizA(int n){ n2=n; }
                                                     cout<<a1.getN1()<<","<<a1.getN2()<<endl;
                                                     cout<<a2.getN1()<<","<<a2.getN2()<<endl;</pre>
void setN1(int n1){ n1=n1; }
                                                     al.swap();
void setN2(int n2){ n2=n2; }
                                                     cout<<a1.getN1()<<","<<a1.getN2()<<endl;</pre>
void swap()
                                                     Write Output Here:
        n1=n2;
                                                         1.3, G
n2=n1;
                                                        2. G, 5
                                                        3.3, G
    int getN1(){ return n1; }
                                                        4.5,5
int getN2(){ return n2; } };
                                                        5. G, G
```

Question # 3: (14)

Write a function which receives two 2D arrays (array1 and array2) and their sizes (row1, col1 and row2, col2 respectively). Array1 is descending sorted (Every Row is sorted in descending order) and array2 is ascending sorted (Every Row is sorted in ascending order) already. Merge both arrays in descending order in new 2D array array3(Every Row should be sorted in Ascending order). YOU MUST ONLY MERGE, do not SORT.

Write your function here: