## **National University of Computer and Emerging Sciences, Lahore Campus**



Course:CP labCode:CL103Program:BS (Computer Science)Semester:Fall 2018Duration:30 minutesT. Marks:20Date:Friday 23-11-2018Weight

Section: C Exam: Quiz 2 Page(s):

Q1. Write output of the given code. Also point out if there is any syntax error: (15 Points) class TuneB:public Tune class Tune protected: public: TuneB(int v, char t):Tune(v){ type=t; } int vol; char type; void test(){ Tune::test(); public: for (int i=0;i<vol;i++) Tune(int v){ vol=v; } void ring()=0; cout<<"#"; void test(){ for (int i=0;i<vol;i++) cout<<vol<<"D2"; } ~TuneB(){ cout<<type; class Mob ~Tune(){ cout<<vol<<"D"; } Tune \*p; class TuneA:public Tune public: Mob(TuneA &obj){ p=&obj; Mob(TuneB &obj){ public: p=&obj; TuneA(int v, char t):Tune(v){ void ring() p->ring(); type=t; void test() p->test(); }; void ring(){ void main() for (int i=0;i<vol;i++) cout<<"\*"; TuneA a(4,'A'); TuneB b(3, 'B'); Mob m1(a); Mob m2(b); ~TuneA(){ cout<<type<<"D1"; } m1.ring(); m2.ring(); m1.test(); m2.test(); };

Output: Write each character in separate box. (Hint: Code has 20+ characters in output)

Q2. Write member function setTune [having 2 parameters Tune & index] to set Tune at given index. First parameter can be any child class of Tune (5 Points)

```
class TuneLibrary
{
   Tune *tunes[15];
```