

National University of Computer and Emerging Sciences, Lahore Campus



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|-----------------|------------------------------|--------------|-----------|
| Course Name: | Programming Fundamentals Lab | Course Code: | CS118 |
| Degree Program: | BS (Computer Science) | Semester: | Fall 2023 |
| Exam Duration: | 10 mints | Total Marks: | 10 |
| Paper Date: | 28 th Nov, 2023 | Weight | 2.5% |
| Section: | BCS-1F | Page(s): | 1 |
| Quiz: | Quiz 2 | | |

Student: Name: _____ Roll No. _____

Instruction/Notes:

- In case of **plagiarism**, Disciplinary committee (**DC**) action will be taken against you and Make sure that **F grade** will be given to you in this course.
- **Multiple answers** are not acceptable
- Everyone use **solid pen** to solve the paper otherwise **zero** will be awarded to you

Question: 1

[10] Marks

Write the proper **output** of the given program

```
#include<iostream>
using namespace std;

int confuse(int& a, int& c, int b)
{
    b = a*c;
    a = b*c;
    c = a+b;
    cout<<"a = "<<a<<"\n";
    cout<<"b = "<<b<<"\n";
    cout<<"c = "<<c<<"\n\n";
    return (a+b+c);
}

int mix(int& b, int& a, int c)
{
    a = b*c;
    b = b+c;
    c = a*b;
    int d=confuse(a,b,c);
    cout<<"a = "<<a<<"\n";
    cout<<"b = "<<b<<"\n";
    cout<<"c = "<<c<<"\n";
    cout<<"d = "<<d<<"\n\n";
    return (a+d);
}

int main()
{
    int a=1, b=2, c=3;
    int d=mix(a,c,b);
    cout<<"a = "<<a<<"\n";
    cout<<"b = "<<b<<"\n";
    cout<<"c = "<<c<<"\n";
    cout<<"d = "<<d<<"\n\n";

    system("pause");
    return 0;
}
```