

delete ptr2; return 0;

}

National University of Computer and Emerging Sciences, Lahore Campus

Object Oriented Programming (Version A)

Total Marks: 10

Section: BCS-9A	Due Date: 19th July, 2023			
Name:	Roll Number:			
Q1: Write the Output of the Following (5 Marks)				
#include <iostream> using namespace std; void function_B(int* &p, int* q) { q = new int; *q = *p - 10; cout << *q << endl; *p = *q - 10; delete q; } void function_A(int* p, int*& q) { p = new int; *p = *q + 20; cout << *p << endl; *q = *p + 20; function_B(p, q); delete p;</iostream>	Output:			
int main()				
<pre>int x = 70; int* ptr1 = &x int* ptr2 = new int; *ptr2 = 80; cout << *ptr1 << " " << *ptr2 << endl; function_A(ptr1, ptr2); cout << *ptr1 << " " << *ptr2 << endl; function_B(ptr1, ptr2); cout << *ptr1 << " " << *ptr2;</pre>				

Q2: Write the Output of the Following: (5 Marks)

```
#include<iostream>
using namespace std;
void fun(int* a, int* b, int m, int n)
  int i = 0, j = 0;
  cout << "Output" << endl;
  while (i < m \&\& j < n)
     if (*(a+i) < *(b+j))
        j++;
     else if (*(a+i) > *(b+j))
        j++;
     else
        cout << *(a+i++) << " ";
        j++;
  }
int main()
  int m, i, j, n, *a, *b;
  m = 5;
  n = 3;
  a = new int[m] \{1, 3, 4, 5, 6\};
  b = new int[n] \{1, 2, 3\};
  fun(a, b, m, n);
  return 0;
}
```