**National University of Computer and Emerging Sciences**

Fast School of Computing Spring 2023

**CS-1004 OOP (CS - F) Quiz # 1-a [10 marks]**

Time = 15 minutes Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**For the Given codes, provide the output:**

| Code Snippets | Output |
| --- | --- |
| #include <iostream>  using namespace std;  int main() {  int a = 32, \*ptr = &a;  char ch = 'A', &cho = ch;  cho += a;  \*ptr += ch;  cout << a << ", " << ch << endl;  return 0;  } | 129, a |
| #include <iostream>  using namespace std;  int main()  {  const int i = 20;  const int\* const ptr = &i;  (\*ptr)++;  int j = 15;  ptr = &j;  cout << i;  return 0;  } | Compiler Error |
| #include <iostream>  using namespace std;  int main()  {  int num[5];  int\* p;  p = num;  \*p = 10;  p++;  \*p = 20;  p = &num[2];  \*p = 30;  p = num + 3;  \*p = 40;  p = num;  \*(p + 4) = 50;  for (int i = 0; i < 5; i++)  cout << num[i] << ", ";  return 0;  } | 10, 20, 30, 40, 50, |
| #include <iostream>  using namespace std;  void foo (int \*);  int  main ()  {  int i = 10;  int \*ptr = &i;  foo (ptr);  foo (++ptr);  foo (ptr++);  }  void  foo (int \*p)  {  cout << \*p << endl;  } | 10  10  Garbage |
| #include <iostream>  using namespace std;  int f(int x, int \*py, int \*\*ppz)  {  int y, z;  \*\*ppz += 1;  z = \*\*ppz;  \*py += 2;  y = \*py;  x += 3;  return x + y + z;  }  int main() {  int c, \*b, \*\*a;  c = 4;  b = &c;  a = &b;  cout << f(c, b, a);  return 0;  } | 19 |