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| **Branch/Semester** | B.Tech CSE (AI & ML) / Semester I |
| **Subject Name:** | Computer Programming |
| **Subject Code:** | 01CE2101 |
| **Assignment:** | Practice Questions (Increment & Decrement Operator) |
| **Date:** | 8th August 2025 |
| **Faculty Name:** | Prof. Abhishek Chauhan |

**Rules for Attempting the Questions:**

* Find the output of each given C program.
* Do not use any compiler to write, run, or check the code.
* Do a manual dry run of the program on paper to determine the result.
* Use a notebook and pen to show your step-by-step working.

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| **Sr.** | **Question** | **CO** | **BL** |
| **1** | #include <stdio.h>  int main() {      int a = 5;      printf("%d\n", a++ + ++a);      return 0;  } | CO2 | BL3 |
| **2** | #include <stdio.h>  int main() {      int a = 3, b;      b = a++ + a++ + ++a;      printf("%d %d\n", a, b);      return 0;  } | CO2 | BL4 |
| **3** | #include <stdio.h>  int main() {      int x = 10;      printf("%d\n", x++ - --x + ++x - x--);      return 0;  } | CO2 | BL4 |
| **4** | #include <stdio.h>  int main() {      int i = 1;      i = i++ + ++i \* i++;      printf("%d\n", i);      return 0;  } | CO2 | BL4 |
| **5** | #include <stdio.h>  int main() {      int a = 2, b = 4;      a = a++ + ++b + b++ + --a;      printf("%d %d\n", a, b);      return 0;  } | CO2 | BL4 |
| **6** | #include <stdio.h>  int main() {      int a = 1, b = 2, c;      c = ++a && b++ || a--;      printf("%d %d %d\n", a, b, c);      return 0;  } | CO2 | BL4 |
| **7** | #include <stdio.h>  int main() {      int x = 5;      printf("%d %d\n", x++, ++x);      return 0;  } | CO2 | BL3 |
| **8** | #include <stdio.h>  int main() {      int i = 7;      printf("%d\n", i++ \* ++i);      return 0;  } | CO2 | BL3 |
| **9** | #include <stdio.h>  int main() {      int a = 3;      printf("%d\n", a++ + a++ + a++);      return 0;  } | CO2 | BL4 |
| **10** | #include <stdio.h>  int main() {      int a = 1;      printf("%d\n", ++a + ++a + ++a);      return 0;  } | CO2 | BL3 |
| **11** | #include <stdio.h>  int main() {      int x = 4, y = 6;      int z = x++ + y-- - --x + ++y;      printf("%d %d %d\n", x, y, z);      return 0;  } | CO2 | BL3 |
| **12** | #include <stdio.h>  int main() {      int a = 10, b = 5;      printf("%d\n", a++ - --b + ++a - b--);      return 0;  } | CO2 | BL4 |
| **13** | #include <stdio.h>  int main() {      int a = 5;      a = a++ - ++a + a-- - --a;      printf("%d\n", a);      return 0;  } | CO2 | BL5 |
| **14** | #include <stdio.h>  int main() {      int i = 2, j = 3;      int k = i++ + ++j + j-- + --i;      printf("%d %d %d\n", i, j, k);      return 0;  } | CO2 | BL5 |
| **15** | #include <stdio.h>  int main() {      int x = 0;      if (++x && x++ && ++x) {          printf("%d\n", x);      } else {          printf("%d\n", x);      }      return 0;  } | CO2 | BL4 |