## **AMCAT Data Types Questions**

- 1. Which of the following does not store a sign?
  - A. Short
  - B. Integer
  - C. Long
  - D. Byte
  - E. Single

## **Answer**-D

```
2. short s1 = 20;
short s2 = 400;
int a;
a = s1 * s2;
```

- A. A value 8000 will be assigned to a.
- B. A negative value will be assigned to a.
- C. During arithmetic if the result exceeds the high or low value of the range the value wraps around till the other side of the range.
- D. An error is reported as widening conversion cannot takes place.
- E. An overflow error will be reported since the result of the multiplication exceeds the range of a Short Integer.

## Answer-A

```
3. int x = 1;
  float y = 1.1f;
  short z = 1;
  Console.WriteLine((float) x + y * z - (x += (short) y));
```

- A. 0.1
- B. 1.0
- C. 1.1
- D. 11

## **Answer**-A

- 4. Which of the following does not store a sign?
  - A. Short
  - B. Integer
  - C. Long
  - D. Byte

E. Single

Answer: Option D

- 5. Which of the following is the correct default value of a Boolean type?
  - A. 0
  - B. 1
  - C. True
  - D. False
  - E. -1

Answer: Option D

- 6. Which of the following is the correct ways to set a value 3.14 in a variable pi such that it cannot be modified?
  - A. float pi = 3.14F;
  - B. #define pi 3.14F;
  - C. const float pi = 3.14F;
  - D. const float pi; pi = 3.14F;
  - E. pi = 3.14F;

Answer: Option C

- 7. Which of the following are the correct way to initialise the variables i and j to a value 10 each?
  - 1. int i = 10; int j = 10;
  - 2. int i, j;
  - 3. i = 10 : j = 10;
  - 4. int i = 10, j = 10;
  - 5. int i, j = 10;
  - 6. int i = j = 10;
  - A. 2, 4
  - B. 1, 3
  - C. 3, 5
  - D. 4,5

Answer: Option B

8. Which of the following statement correctly assigns a value 33 to a variable c?

- A. c = (byte) (a + b);
- B. c = (byte) a + (byte) b;
- C. c = (int) a + (int) b;

```
D. c = (int)(a + b);
   E. c = a + b;
Answer: Option A
10. Output of following program?
   #include<stdio.h>
   int main()
   {
     float x = 0.1;
     if ( x == 0.1 )
       printf("IF");
     else if (x == 0.1f)
      printf("ELSE IF");
     else
      printf("ELSE");
  }
    A. ELSE IF
    B. IF
   C. ELSE
    D. None of these
```

**Answer**:- Option A