

IPC144 Quiz1 - Solution

[10 marks]

Instructions:

Complete all questions in the spaces provided. This quiz is worth 5% of your final grade.

Part A– Multiple Choice: only one correct answer for each question: (0.5 marks each)

Are the following legal C programming language data type? [True for “Yes”, false for “No”.]

1. data: (A) true (B) false – (B)
2. int: (A) true (B) false – (A)
3. double: (A) true (B) false – (A)
4. string: (A) true (B) false – (B)
5. What value is returned (yielded) by the following expression: $(5 == 7)$ – (D)
(A) true (B) false (C) 1 (D) 0 (E) Error

Are the following valid variable names? [True for “Yes”, false for “No”.]

6. if : (A) true (B) false – (B)
7. good_day : (A) true (B) false – (B)
8. happy_day : (A) true (B) false – (A)
9. u2 : (A) true (B) false – (A)
10. 2go : (A) true (B) false – (B)

Part B – Calculation (1 mark each)

11. What is the Decimal value for the Binary number 1011?

Ans: $2(^3) + 0 + 2 + 1 = 11$

12. What is the Decimal value for the Hexadecimal number 12?

Ans: $1 * 16 + 2 = 18$

13. What is the Hexadecimal value for the Binary number 1011?

Ans: $8 + 2 + 1 = 11$ (B)

14. What is the Binary number for Decimal value 65?

Ans: 1000001

15. What is the Binary number (in 8 digits) for Hexadecimal value 65?

Ans: 0110 0101