IPC144 Quiz3 – Version A (Solution)
[10 marks]

Multiple Choice: Only **one** correct answer for each question:

1. Array is a data structure that can hold a list of values that must be in the same data type. **[1 mark]** – (A)
   (A) True (B) False

2. Two parallel arrays can be used to store tabular information.   **[1 mark]** – (A)
         (A) True (B) False

3. What is the output for the following C code snippet?   **[2 marks]** – (B)
   ```
   int a[3] = {3,5,9};
   printf("%d", a[1]);

   scanf("%d", &a[1]);
   ```
   (A) 3   (B) 5   (C) 9   (D) error

4. A *string* is a `char` array with the null terminator at the end. Which of the following is <u>NOT</u> the correct definition to a C string "HELLO". – (B) **[2 marks]**
   (A) `char s[6]="HELLO";`
   (B) `char s[5]= {'H','E', 'L', 'L', 'O'};`
   (C) `char s[6]= {'H','E', 'L', 'L', 'O','\0'};`
   (D) `char s[6];`
   ```
       s[0] = 'H';
       s[1] = 'E';
       s[2] = 'L';
       s[3] = 'L';
       s[4] = 'O';
       s[5] = '\0';
   ```

5. How many errors in the following C program snippet? (hint: including syntactic and semantic errors) **[4 marks]** – (E)
   ```
       #include <stdio.h>//;
       int main(void){
               int slices;
               slices = 2;
                while (slices > 0) {
                       slices--;
                       printf("Gulp! Slices left %d\n", slices);
                }
               return 0;
       }
   ```
   (A) 0 (B) 1 (C) 2 (D) 3 (E) 4