Started on Thursday, 21 September 2023, 5:07 PM

State Finished

Completed on Thursday, 21 September 2023, 5:22 PM

Time taken 15 mins

**Grade 7.00** out of 10.00 (**70**%)

#### Question 1

Correct

Mark 1.00 out of 1.00

The correct answer is: 10011

Correct

Mark 1.00 out of 1.00

Which of the following is the correct way for declaring a float pointer?

- a. float \*ptr 

  ✓
- b. \*float ptr
- o. None of the above
- d. float ptr

The correct answer is: float \*ptr

Incorrect

Mark 0.00 out of 1.00

```
What is the output of the following program?
#include <stdio.h>
void func(int *a, int *b)
  a = b;
  *a = 2;
int i = 0, j = 1;
int main()
  func(&i, &j);
  printf("%d %d", i, j);
  return 0;
 a. 21 x
 O b. 02
 O c. 01
 Od. 22
```

The correct answer is:

| Question 4 Correct    | What happens when one assigns a value to an element of array whose subscript exceeds the size of the array? |
|-----------------------|---|
| Mark 1.00 out of 1.00 | ○ a. Compiler error   |
|                       | ○ b. Nothing, it is done all the time   |
|                       | <ul><li></li></ul>  |
|                       | Od. The element is set to zero  |
|                       | The correct answer is: Other data may be overwritten  |
| Question 5 Correct    | What is the return type of the function with prototype: "int func(char x, float v, double t);"              |
| Mark 1.00 out of 1.00 | ○ a. float  |
|                       | O b. double   |
|                       | ○ c. char   |
|                       | o     d. int   ✓  |
|                       | The correct answer is:  |

```
Question 6
```

Incorrect

Mark 0.00 out of 1.00

```
int main() {
  char *p = "Programming";
  printf("%c", *& * & * p);
  return 0;
}
```

- a. Runtime Error
- Ob. Garbage value
- Oc. P
- d. Programming X

The correct answer is:

Ρ

Incorrect

Mark 0.00 out of 1.00

```
What is the problem with following code?

#include < stdio.h >

int main() {

  int *ptr = (int *)malloc(sizeof(int));

  ptr = NULL;

  free(ptr);
}

a. Compiler Error: free can't be applied on NULL pointer

  b. Memory Leak

  c. Dangling Pointer ★
```

The correct answer is:

Memory Leak

Correct

Mark 1.00 out of 1.00

```
What will be the output produced by the following C code: int main() {
  int arr[5][5];
  printf("%d", ((arr == *arr) && (*arr == arr[0]) ));
  return 0;
}
```

- a. -1
- O b. 0
- © c. 1 ✓
- O d. 2

The correct answer is:

1

Correct

Mark 1.00 out of 1.00

Consider the following recursive function fun(x, y). What is the value of fun(4, 3)? int fun(int x, int y) {
 if (x == 0) return y;
 return fun(x - 1, x + y);

- a. 9
- O b. 10
- © c. 13 ✓
- Od. 12

The correct answer is:

13

Correct

Mark 1.00 out of 1.00

 $\label{thm:continuous} \mbox{Match the following with respect to the following program segment:} \\$ 

int arr[3][3] = 
$$\{\{2,4,6\}, \{9,1,10\}, \{16, 64, 5\}\}$$
;

1

The correct answer is:

\*\*arr < \*(\*arr+2)

\*
$$(arr[1] + 1) | arr[1][2] \rightarrow 11$$
,

\*
$$(arr[0]) \mid *(arr[2]) \rightarrow 18$$
,

$$arr[0][1] ^ arr[0][2] \rightarrow 2,$$