```
Started on Thursday, 21 September 2023, 5:06 PM

State Finished

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Time taken 15 mins 1 sec

Grade 5.60 out of 10.00 (56%)
```

### Question 1

Correct

Mark 1.00 out of 1.00

What is the return type of the function with prototype: "int func(char x, float v, double t);"

a. int 

✓

ob. double

c. float

d. char

### The correct answer is:

int

### Question 2

Correct

Mark 1.00 out of 1.00

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

  a. Garbage value
  b. P 	✓
  c. Runtime Error
  d. Programming
```

### The correct answer is:

# ${\tt Question}~3$

Correct

Mark 1.00 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. 22

b. 02

✓

O c. 21

Od. 01

The correct answer is:

02

# Mark 1.00 out of 1.00 What does the following function print for n = 25? void test(int n) { if (n == 0)return; printf("%d", n%2); test(n/2); a. 10011 ✓ o b. 11111 c. 00000 od. 11001 The correct answer is: 10011 Question 5 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

The correct answer is: float \*ptr

d. float ptr

oc. None of the above

Question 4
Correct

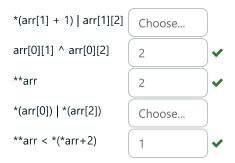
### Question 6

Partially correct

Mark 0.60 out of 1.00

Match the following with respect to the following program segment:

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



```
The correct answer is: *(arr[1] + 1) | arr[1][2] \rightarrow 11, arr[0][1] \land arr[0][2] \rightarrow 2, **arr \rightarrow 2, *(arr[0]) | *(arr[2]) \rightarrow 18, **arr < *(*arr+2) \rightarrow 1
```

### Question 7

Incorrect

Mark 0.00 out of 1.00

What happens when one assigns a value to an element of array whose subscript exceeds the size of the array?

- a. The element is set to zero
- Other data may be overwritten
- c. Compiler error X
- od. Nothing, it is done all the time

The correct answer is:

Other data may be overwritten

# 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. 12 b. 10 c. 9 d. 13

### The correct answer is:

13

Question 8

Not answered

### Question 9

Not answered

Marked 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

## Question 10

Not answered

Marked 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. 1
- O c. 0
- Od. 2

The correct answer is:

1