COMSATS University Islamabad,
Abbottabad Campus

Mid Term FA22

Course: Programming Fundamentals | **Course Instructor: Fuzel Jamil**

Class: BCS-II (B) | **Date: November 18, 2022**

Total Marks: 50 | **Time allowed: 90 Mins**

Name: _____ | **Registration No: _____**

SECTION A (CLO-0)

Objective Portion (Marks 10) Time 10 Mins

1. Choose a C Conditional Operator from the list.

a) ?: b) :? c) :< d) <:

2. Which of the following is not an arithmetic operation?

a) a *= 10; b) a /= 10; c) a != 10; d) a %= 10;

3. The statement that activates a function is known as:

a) Function output b) Function call c) Invoke d) Function definition

4. Which one of the following will give an error message?

a) char x = '.'; b) char x = ' '; c) char x = '3'; d) char x = "s";

5. int x = 9 /(3 + 4) * 5+9;

What will be the value of x?

a) 14 b) 44 c) 9 d) 32

6. Which of the following statements shifts the control out of the switch body?

a) Default b) Continue c) Break d) Case

7. Which of the following conditional statements is executed at least once even if the given condition is false?

a) If b) For c) While d) Do-while

8. Value which is passed to a function is known as _____.

a) Variable b) Parameter c) Return type d) Call

9. Which answer below is most accurate for the statement: a = *ptr;

a) The variable **a** must be a pointer.

b) The value of the pointer **ptr** is being assigned to the variable **a**.

c) The value of memory location that **ptr** is pointing to is being assigned to the variable **a**.

d) The address of the pointer **ptr** is being assigned to the variable **a**.

10. What is the data type of a pointer variable by which the memory would be allocated to it?

a) Int

b) Float

c) Char

d) No datatype

e) Type of the variable to which it is pointing

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SECTION B

Write short answers of the following **Marks 20**

1. What is wrong with the following code? Mention errors and re-write correct program. CLO-2

```
#include<stdio.h>
void increment ()
    {
        num1 = num1 + 100;
        return num1;
    }
void main ()
    {
        int num1 = 100;
        clrscr() ;
        int result = increment ();
        printf (" %f ", result);
    }
```

2. What will be the output? (Values of w, x, y, z) CLO-1

```
#include<stdio.h>
int main(){
    int  x =1, y =2 , w, z;
    w  = x--;
    z = --y;
    x*=5;
    z+=x;
    printf("w = %d, x = %d, y = %d, z = %d",w,xy,z);
}
```

3. What is a header file and why do we use them in C program? CLO-1

4. What is the difference between variables and pointers? Why is necessary to provide data type while declaring a pointer? CLO-2

SECTION C

Write in detail **Marks 20**

1. Write a program in C that takes the number of terms as an input from user, pass that number to a function using “pass by reference”, and prints the given number of fibonacci series terms in the function. CLO-2

2. Write a program that should have the following output.

Note: You have to use a switch statement. CLO-1

