Seat No:	Enrollment No:

## PARUL UNIVERSITY

## FACULTY OF IT & COMPUTER SCIENCE BCA/ IMCA. Winter 2019 - 20 Examination

Semester: 2 Date: 09/12/2019

**Subject Code: 05101151** Time:10:30 am to 1:00 pm

**Subject Name: Advanced C Programming** 

## **Instructions:**

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.

## Q.1 Answer the followings.

```
(05)
A. Write short notes.
```

- 1. What is pointer?
- 2. What is structure?
- 3. What is main difference between structure and union?
- 4. What do you mean by call by reference?
- 5. What is fopen ()?

```
(10)
B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks)
```

```
1. What is the output of this program
        void main()
```

```
int a=b=c=10; a=b=c=50;
printf("\n %d %d %d",a,b,c);
}
```

[A] 50 50 50 [B] Compile Time Error

```
[C] 10 10 10
```

[D] Three Garbage Value

**Total Marks: 60** 

2. What will be Output of this program?

```
void main( )
       int x []= \{10,20,30,40,50\};
       print f (" \n %d %d %d %d ", x [4] ,3[x]
x[2],1[x],x[0];
       }
                                [B] 10 20 30 40 50
[A] Error
[C] 50 40 30 20 10
                              [D]None of these
```

3. By default a function returns a value of type

Al int Bl char Cl void

4. Which is valid string function?

A] strpbrk B] strlen C] strxfrm D] strcut

5. What will be the output?

```
void main ()
printf("%d",'B' < 'A');
```

A] Error

B] 1

C] 0

D] None of these

6. The value obtained in the function is given back to main by using \_\_\_\_\_ keyword?

A) return

B) static

C) new

D) volatile

D] None of these

	7. For binary files, a must be appended to the mode string.			
	A) "01" B) "b"			
	C) binary D) Nothing			
	8. A pointer to a pointer in a form of A] multiple indirection B] a chain of pointers			
	C] both a and b D] None of these			
	9.Pointers are of			
	A] integer data type  B] character data type			
	C] unsigned integer data types D] None of these 10. Which of the following true about FILE *fp			
	A) FILE is a keyword in C for representing files and fp is a variable of FILE type.			
	B) FILE is a structure and fp is a pointer to the structure of FILE type			
	C) FILE is a stream			
	D) FILE is a buffered stream			
Q.2	Answer the followings. (Attempt Any Five)	(15		
	1. What is Union? Give difference between Structure and Array.			
	2. What is File? What are the types of file?			
	3. Differentiate between local variable and global variable?			
	4. Distinguish between getchar() and putchar (write 3 points for each).			
	5. How to detect end of file in C. Explain in detail.			
	6. Define: pointer, call by reference, recursion.			
Q.3	Answer the following. (Any three)	(15		
	1. What is structure? Explain with suitable example. Explain array of structure with example			
	2. Give introduction of file. Explain its basic operations with suitable example.			
	3. Explain array of pointers. With example.			
	4. List out the advantages of function. Write a program to calculate area of a square using			
	function with arguments and return value.			
Q.4	Answer the following.			
_	What is recursion explain with suitable example	(05		
11,	What role does the fseek() plays and how many arguments does it Have? Explain each argument in	(02		
В.		(10		
	brief with suitable example.			
	OR			
В.	What is pointer? Explain with suitable example. Write a program to find address of original			
D.	variable and do increment on pointer and display new address.	(10		