## PARUL UNIVERSITY E

<b>FACULTY</b>	OF IT & (	COMPUTEI	R SCIENCI
RCA / IMC	'A Summe	r 2017–18 E	xamination

Semester: 2 Date: 17-05-2018

Subject Code: 05101151 / 05301151 Time: 10:30AM to 01:00PM Total Marks: 60\_

**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 following.

- **A. 1.** Define string. **(5)** 
  - **2.** What is Global scope?
  - **3.** Write down types of function.
  - 4. Pointer as a function parameter is used to hold addresses of arguments passed
  - **5.** How to declare a structure?
- **1.** What the following function call mean?

(10)

```
strcpy(s1,s2);
```

A) copies s1 string into s2

B) copies s2 string into s1

C) copies both s1 and s2

- D) None of these
- 2. What will be the size of following union declaration?

```
Union Test {
 int x;
 char y;
  float z; };
```

A) 7 bytes

B) 4 bytes

C) 1 bytes

- D) 2 bytes
- **3.** What is the right way to access value of structure variable book{price,page}?
  - A) printf("%d %d",book.price, book.page);
  - B) printf("%d %d",price.book, page.price);
  - C) printf("%d %d",book::price, book::page);
  - D) printf("%d %d",book-price, book-page);
- **4**. What is the ASCII value of carriage returns?
  - A) 11

B) 13

C) 10

D) 8

**5.** What is the output of this C code?

```
include <stdio.h>
void m()
  printf("hi");
void main()
  m();
```

	A) hi C) hi hi	B) Run time error D) Nothing					
	<b>6.</b> The value obtained in the function is give	en back to main by using	keyword?				
	A) return	B) static	neyora.				
	C) new	D) volatile					
	7. For binary files, a must be appended	to the mode string.					
	A) "01"	B) "b"					
	C) binary	D) Nothing					
	<b>8.</b> What is the meant by 'a' in the following fp = fopen("Random.txt", "a");	operation?					
	A) Attach	B) Append					
	C) Apprehend	D) Add					
	<b>9.</b> The declaration						
	int (*p) [5]; means A) p is one dimensional array of s B) p is a pointer to a 5 elements i C) The same as int *p[ D) None of these.  10. Which of the following true about FILE A) FILE is a keyword in C for rep B) FILE is a structure and fp is a p C) FILE is a stream D) FILE is a buffered stream	nteger array.  *fp presenting files and fp is a variate pointer to the structure of FILE		(15)			
	Answer the following. (Attempt any FIVI			(15)			
<ol> <li>Distinguish between Array and structure.</li> <li>Define: pointer, call by reference, recursion.</li> <li>Explain Elements of User-Defined Function in detail.</li> <li>Distinguish between getchar() and putchar (write 3 points for each).</li> <li>How to detect end of file in C. Explain in detail.</li> <li>Write a short note on pointer increments &amp; scale factor?</li> <li>Attempt any THREE.</li> </ol>							
1. List out Categories of functions and write a program to calculate area of a circle using function with arguments and return value.							
	<ul><li>2. How to Read a string from terminal with and what is the solution?</li><li>3. Write a note on structure within structure</li></ul>		imitations of scanf() function				
	<b>4.</b> Give introduction of file. Explain its bas:	•	mnle				
	•	ic operations with suitable exal	iipie.				
	Answer the following.			( <b>=</b> )			
	Explain declaration and initialization of poi original variable and do increment on points What role does the fseek() plays and how m brief with suitable example.	er and display new address.		(5) (10)			
	OR						
	How to declare and initialize string? List ou with suitable example.	at string handling function and	explain any three in brief	(10)			

Q.2

**Q.3** 

Q.4 A.

B.

B.