## Prog with c

Q.P. Code :03595

[Time:  $2\frac{1}{2}$ ]

[ Marks:75]

Please check whether you have got the right question paper.

N.B:

- 1. All questions are compulsory.
- 2. Figures to the right indicate marks.
- 3. Illustrations, in-depth answers and diagrams will be appreciated.
- 4. Mixing of sub-questions is not allowed.
- Q.1 Attempt all (each of five marks)
  - A Multiple choice questions
    - i. What is difference between a declaration and a definition of a variable?
      - a. Both can occur multiple times, but a declaration must occur first.
      - b. There is no difference between them
      - c. A definition occurs once, but a declaration may occur many times
      - d. A declaration occur once, but a definition may occur many times
    - ii. Guess the output for following C code?

#include <stdio.h>

Int main(){

Int x=3, y=4, z=4;

Printf("%d",(z>y=y>=x?100:200));

Return 0;

}

- a. 100
- b. 200
- c. 0
- d. 1
- e. Complementation error
- iii. Consider the following code and guess the output

Int X=0; for(x=1;x<4;x++);  $printf("x=%d\n"x)$ ;

- a. X=0
- b. X=1
- c. X=3
- d. X=4
- e. X=5
- iv. What will be output for following C code?

#include<stdio.h>

Int main(){

Float a=0.5,b=0.9;

If(a&&b>0.9)

Printf ("sachin");

Else

Printf("Rahul");

Return 0;

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- a. Sachin
- b. Rahul
- c. Null
- d. Run time error
- e. Compilation error

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		Q.1.1 Court 1033333
v.	W	hich one of the following is the valid function definition:
	a.	Void abc(int a,int b){
		Int c;
		Return(c);
	b.	Introduction to the by
	D.	Int abc(int a, int b){
	c.	Int abc(int a, int b){
		Double $c = a+b$ ;
		Return(c);
	d.	Void abc (void){
-		
		Return;
	e.	Void abc(int a, int b)
		Return;
		inetain,
Fill in t	he b	lanks
a.		The order of evaluation can be changed by using in an expression.
b.		The ternary conditional expression using the expression using the operator?: could be easily coded usingstatement
		coded usingstatement.
c.	1	An array created using malloc function at run time is referred as array
d.		The function call streat (s2,s1); upendsto
e.	6V.5	The statement first executes the loop body and then evaluates the loop control
.0		expression.
Short A	Insw	1 A 90 PEC A 7 L PC ACCES DE LE 11 GAZ A 20 PEC A 20 A 2
a.	150	Compare between implementing iterations using while and do-while.
b.		Describe use of free() for memory management in Clanguage
c.	100	write a statement in C to allocate enough space to hold an array of 10 integers that are
000		mittanzed to 0.
d.	S) 18	List out any two formatted I/O functions in C programming.
e.		What is recursive function?
Attemo	t the	following (Any three)
a.	Expl	ain in brief the structure of C program.
	Writ	e a c program to accept the number from user if it
	prin	te a c program to accept the number from user, if the entered number is greater than 100 ther that "your number is greater than 100" else print as "your print is smaller than 100".
c.	Writ	e a c program to accept the input from user, if the user entered character display a massage
	tellir	ng that it is an alphabet, for digit display as it is digit.

telling that it is an alphabet, for digit display as it is digit, or any other special character.

e. Write a c program to check whether a VOWEL or CONSONANT using switch case and print the

Write a C program to read the age of a candidate and determine whether it is eligible for casting

d. State and explain while statement in c Programming with suitable example.

appropriate messages in the output.

his/her own vote.

Q2

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## Q.P. Code :03595

Q3	Attempt the following (Any three)	
	a. Write a C program to find largest and smallest number in an array.	io lo
1	b. Explain working of gets() and puts() functions with suitable program.	
6	c. Write a C program to perform concatenation operation of string with and without using streat()	
	d. State an example: elements of user-defined functions.	
	e. Distinguish between global and local variable suitable example.	
	f. What is nesting of functions? Illustrate it with suitable example to explain the same.	
Q4	Attempt the following (Any three)	
	a. What are pointers? State and explain benefits of using pointers.	1
	b. Write dynamic memory management. Explain any one dynamic allocation function.	
	c. Write a c program to create an array of 3 elements for structure to store id, name, and percentage	
	of student. Accept record from user and print the same.	e
	d. Compare characteristics between C structure with python tuples.	
	e. Write a C program to store integer values in a file called 'INPUT'. Read INPUT file, perform file,	
	perform addition of all even numbers in the file and print as the output	
<b>9</b> .	f. What does fseek() function does? Explain parameters of fseek() function. Also state the output for following fseek() statements	
1	following fseek () statements.	
	i. fseek(fp,0L,0);	
/	ii. fseek(fp,m,0);	
	iii. fseek(fp,m1);	
	iv. fseek(fp,m1);	
Q5	Attempt the following (Any three)	
	a. Explain with illustration working of GOTO statement.	1.
	b. What is mean by calling a function passing by reference?	
	c. Define fopen() function in detail.	
55	d. Define following function.	
	1. getch()	
	2. getche()	

e. Write a C program to copy the contents of one file into another.