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Total No. of Ouestions: 9]

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(2111)

# BCA (CBCS) RUSA Ist Semester **Examination**

# 4511

# **C-PROGRAMMING**

BCA-0104

Time: 3 Hours

[Maximum Marks: 70

Note: - Attempt five questions in all, selecting one each from Unit-I to Unit-IV. Part-A (Q. No. 1) is compulsory.

### Part-A

# (Compulsory Question)

- 1. (A) Multiple Choice Questions:
  - Compiler generates ..... files. (i)
    - Executable code (a)
    - Object code (b)
    - (c) Assembly code
    - (d) None of these

C - 574

(1)

Turn Over

(11)	What function can be used to free the
	memory allocated by calloc()?
	(a) Dealloc
	(b) Streat
	(c) Free
	(d) Memory
(iii)	What will be the output of the following
	C code ?
	1. # include <stdio.h></stdio.h>
	2. void main()
	3. {
	4. char a='a'
	5. int $x=(a\%10)++$ .
	6. printf ("%d, \n", x);
	7. }
	(a) 6
	(b) Junk value
(	c) Compile time error
(	d) 7

(2)

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(iv) What will be the output of the following
C code ?
1. # include <stdio.h></stdio.h>
2. int main()
3. {
4. int $i=0$
5. int $j=i+++i$ ;
6. printf ("%d, %n", f);
(a) 0
(b) 1
(c) 2
(d) Compile time error
(v) What is the maximum number of
dimensions an array in C may have ?
(a) Two
(b) Eight
(c) Twenty
(d) Theoretically no limit
The only practical limits are memory size
and compilers.
<b>C–574</b> (3) Turn Over

(vi)	Wh	ich are of the following is not a					
reserved keyword for C?							
	(a)	auto					
	(b)	case					
	(c)	main					
	(d)	default					
(vii) A C variable cannot start with:							
	(a)	A number					
	(b)	A special symbol other than					
		underscore					
	(c)	Both of these					
	(d)	An alphabet					
(viii)	Wha	at does the following declaration mean?					
		int (*ptr) [10];					
	(a)	ptr is array of pointers to 10 integers					
	(b)	ptr is a pointer to an array of 10					
		integers					
	(c)	ptr is an array of 10 integers					
		ptr is a pointer to array					
		. array					

(ix)	The keyword used to transfer control from			
	a function back to the calling function is:			
	(a) switch	(b) go	to	
	(c) go back	(d) ret	urn	
· (x)	Specify the two	library fu	nctions to	
	dynamically allocate memory:			
	(a) malloc() and	memalloc()		
	(b) alloc() and me	emalloc()		
	(c) malloc() and	calloc()		
	(d) memalloc() ar	nd foralloc()	1×10=10	
(B) Ar	wer the following in 25 to 50 words:			
(i)	Why C is called as structured language?			
(ii)	What are different symbols of flow chart?			
/ (iii	Differentiate between constant and variable.			
(iv	Explain what is operand? What is its relationship with operands?			
(v)	Is it possible to declare and initialize an			
	yes, how?			
			$4 \times 5 = 20$	
C-574	( 5	)	Turn Ove	

#### Part-B

#### (Unit-I)

10 each

2. Write an algorithm and draw flow chart to find and print Fibonacci sequence.

Or

3. Define data type. Explain various data types used in C in detail by taking examples.

#### (Unit-II)

10 each

4. Define an Operator. Explain, what are its different types?

Or

5. What are formatted and unformatted input/output functions used in C. Explain in detail by taking examples.

### (Unit-III)

10 each

- 6. Write a menu driven program with the following options:
  - (i) Biggest of three numbers
  - (ii) Positive or negative number
  - (iii) Factorial of a number
  - (iv) Exit

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(6)

7. What are Control Statement? Explain different types of control statements.

## (Unit-IV)

10 each

8. What is the need for functions? What are different ways of passing arguments to a function?

Or

9. What are the advantages of using pointers? What are the various operations permitted on pointers?