Roll No. ..6.2.1.14

Total No. of Questions: 9]

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

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(1)

Turn Over

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												(iii)						(ii)
(d)	(c)	Э	(a)	7.	6.	5.	4.	'n	. 2	:-	Cc		(d)	(0)	(b)	છ	mem	What
The state of the s	Compile time error	Junk value	6	*	printf ("%d, \n", x);	int x=(a%10)++.	char a='a'		void main()	# include <stdio.h></stdio.h>	C code ?	What will be the output of the following	(d) Memory	Free	Streat	Dealloc	memory allocated by calloc() ?	What function can be used to free the
				-													i di	

(iv) What will be the output of the following

C code?

include <stdio.h>

int main()

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4. int i=0

5. int j=i++ +i;

. printf ("%d, %n", f);

(a) U

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(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.

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

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- (ix) The keyword used to transfer control from a function back to the calling function is:
- (a) switch
- (b) goto
- (c) go back
- (d) return
- \propto Specify the two library functions to dynamically allocate memory:
- (a) malloc() and memalloc()
- (b) alloc() and memalloc()
- (c) malloc() and calloc()
- (d) memalloc() and foralloc()
- 01=01×1
- (B) Answer the following in 25 to 50 words:
- (f) Why C is called as structured language?
- What are different symbols of flow chart?
- (iii) Differentiate between constant and variable.
- 3 Explain what is operand? What is its relationship with operands ?
- 3 array in C simultaneously? If yes, how? Is it possible to declare and initialize an

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(Unit-I)

10 each

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

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?

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

(Unit-III)

10 each

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

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 ?

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

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