

003-007101

M.C.A. (Sem.-I) Examination January-2014 CCA1001 : Introduction to Programming using C

Faculty Code : 003 Subject Code: 007101

Time : 3 Hours

[Total Marks: 70

15

ι.	Answer	the t	following	Multiple	Choice	Questions	:

12.00101-201 (1)What will be output of following C code? #include<stdio.h> int main(){

int i=2, j=2;while(i+1?--i:j++)

printf("%d".i);

return 0:

- } (a) 0(b) I (c) 2 (d) 3
- (2)

What will be output of following C code ? #include<stdio.h>

int main(){

int i.j;

i=j=2.3;

while(--i&&j++)

printf("%d %d".i.j):

return 0:

} (a) 11 (b) 12 (c) 13 (d) 14

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What will be output of following C code? (3)#include<stdio.h> int main(){ for(::) { printf("%d ".10): 1 return 0: 1 (b) 11 (a) 10 (d) infinite loop (c) 12 (4) Which of the following operator takes only integer operands? Select one : (a) +(b) 0/0 (c) / (d) #include<stdio.h> (5)int main(){ int i: for(i=0;i<=5;i++) printf("%d",i); return 0: 1 (a) 01234(b) 012345 (c) 0123456 (d) 6 (6) Write a C program to print Hello world without using any semicolon void main(){ (a) if(printf("Hello world")){ void main(){ (b) while(!printf("Hello world")){ 2 3 (c) void main(){ switch(printf("Hello world")){ (d) All of the above 003-007101 2

- (7) What will be output of following C program?
 - int main(){

int *ptr;

printf("%d",*ptr);

return 0;

}

(a) Address of variable ptr

(b) Garbage value

(c) Null

- (d) None of the above
- (8) What are merits and demerits of array in C?
 - (a) We can easily access each element of array.
 - (b) Not necessity to declare too many variables.
 - (c) Array elements are stored in continuous memory location.

(d) All of the above

- (9) Which of the following is same as "NULL"?
 - (a) '0' (b) '1'
 - (c) '\0' (d) '0\'
- (10) Which of the following comments about the usage of structure is true?

Select one :

- (a) Storage class can be assigned to individual numbers.
- (b) The scope of a member name is confined to the particular structure, within which it is defined.
- (c) Individual members can be initialized within a structure type declaration.
- (d) None of above
- (11) Which of the following is used to terminate from the loop?
 - (a) switch (b) break
 - (c) go to (d) None of these

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(12)	int main()		
	{		
	<pre>printf("\nab");</pre>		
	<pre>printf("\bsi");</pre>		
	printf("\rha");		
	return 0;		
	}		
	What will be the o/p of above ?	?	
	(a) absiha	(b)	ab siha siha cified ?
			siha
	(c) hai	(d)	siha
(13)	Which of the following is a typ	e spe	cified ?
	(a) Static	(b)	Const
	(c) Unsigned	(d)	None of these
(14)	What is the range of signed cha	ır ?	
	(a) 0 to 255	(b)	- 128 to 255
	(c) - 127 to 128	(d)	- 128 to 127
(15)	C is		
	(a) procedural language		
	(b) object-oriented language		
	(c) non-procedural language		
	(d) problem-oriented language		
	0		
Atter	mpt any five of the following :		
(1)	Why we use do-while loop in you know?	C ?	Also tell any properties which
(2)	What is the meaning of prototy	pe of	a function ?
(3)	What is ternary operator ? Expl	ain.	
(4)	What is pointer to a function?	Expla	ain.
(5)	What is User defined functions	?Ex	plain its use.
(6)	What is meaning of NULL?		

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- 3. Attempt any three of the following :
 - (1) Write a program that determines the grade of steel according to following condition :
 - 1 Hardness must be greater than 50
 - 2 Carbon must be less than 0.7
 - 3 Tensile must be greater than 5500

Take the input for above qualities through keyboard from user Grades are decided as follows :

Grade A if all 3 conditions are met.

Grade B if condition (1) and (2) are met.

Grade C if condition (2) and (3) are met.

Grade D if condition (1) and (3) are met.

Grade E if only one condition met.

Grade F if none of conditions are met.

- (2) Write a program to print following output :
 - 2 4 6 8 10
 - 4 6 8 10
 - 6 8 10
 - 8 10

10

- (3) Write a C program to find out average of 200 integer number.
- (4) Write a program to reverse the string without using function.

Attempt any two of the following :

- (1) What is difference between pass by value and pass by reference?
- (2) What is pointer ? Explain pointer to point with suitable example.
- (3) Explain string Concatenate, Reverse functions.

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- 5. Attempt any one of the following :
 - (1) Explain following functions :

strcmp(), strlen(), strcpy(), strrev(), strupr().

(2) Write a program that access the structure variable using pointer.

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003-007101 M. C. A. (Sem. I) (CBCS) Examination January - 2012 CCA - 1001 - Introduction to Programming Using C (New Course)

Faculty Code : 003 Subject Code : 007101

Time : 3 Hours]	[Total Marks : 70
Q-1. Answer the Following Multiple Choice Questions : 1. How Many types of keywords are there in C language? A. 30 B. 31 C. 32 D. 33	[15]
2. How many bits occupied by the variable of type u	insigned int?
A. 8 B. 16 C. 32 D. 64 3is the member access operator for poi	inter to structure?
A B. : C. ,	
D. \rightarrow 4. Give the output of the following :	
void main()	
{	
int k, j=0;	
printf(" %d %d", ++j , j++);	
k=++j;	
printf("%d %d ", j, ++k);	
}	
A. 1 3 3	
B. 2034 C. 1234	
D. 0123	
5. scanf() reads until it finds a	
A. Comma	
B. Space	
C. Enter	
D. Dot	
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- 6. _____is an exit controlled loop .
 - A. For
 - B. While
 - C. Do While
 - D. All
- 7. Which mode is useful to read an existing content & add new content to the file?
 - A. r+
 - B. w+
 - C. a+
 - D. B & C
- 8. Constants such as FILE, EOF, & NULL are defined in _____.
 - A. stdio.h
 - B. conio.h
 - C. ctype.h
 - D. stdlib.h

9. The default value of any global variable is ______.

- A. 0
- B. 1
- C. Garbage
- D. Null

10. We can declare symbolic or numeric constant using _____.

- A. #define
- B. #include
- C. #typedef
- D. #infinite

11. Each member name declared in structure within the braces is called....

- A. Element
- B. variable
- C. structure element or member
- D. none of these
- 12. Variables that hold address of structure, its call....
 - A. array of structure
 - B. nesting of structure
 - C. pointer to structure
 - D. nonc of these
- 13. Which of the following shows array of pointers?
 - A. *p
 - B. [10]*p
 - C. *p[10]
 - D. none of these
- 14. To receive the string "We have got the guns, you get the glory" in an array char str[100] which of the following function would you use ?
 - A. scanf("%s",str);
 - B. gets(str);
 - C. getche(str);
 - D. fgetchar(str);

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15.	Consider th typedef stru {		wing de	eclaration	1				
	}NAJ	Char Char ME	name[2 middle surnan 1E class	ename[5] ne[20];	. ,				
	B. clas mic C. clas	ss is a	array o rray of ie and s ew type	f 20 nar surname e	acter only nes where	e each	name	consis	ts of a name,
1. 2. 3. 4. 5.	Attempt any Differentia What is the Explain for What is ter What is arr What is use	te flowe c usc of r loop v mary op ray? Exj	chart an linking with sub erator? plain he	nd algori g a progra itable exa P Explain ow array	am? ample elements a		ed in n	nemory	[15]
	Attempt any Write a pro x/1 + x/2 +	ogram to	o print	followin	g series	x/10			[15]
A E	Write a pro AAAA BBB CC	ogram to	o print '	followin	g output:				
3.	Write a pro	ogram to) gener	ate follo	wing outpu	it using	2D A	rrav:	
	50	10	10	70	0 r	0			
	2	3	20	25					
	3	3	30	36					
	55	16	60	131					

4. Write a program to calculate salary as per following table:

Gender	Years	Qualification	Salary
Male	>=10	PG	15000
Male	>=10	G	10000
Male	<10	PG	10000

[Contd...

3

Male	<10	G	7000
Female	>=10	PG	12000
Female	>=10	G	9000
Female	<10	PG	10000
Female	<10	G	6000

Q-4. Attempt any Two of the Following:

- 1. What is structure? Explain is use with passing structure to function with suitable example
- 2. What is pointer? Explain pointer to point with suitable example
- 3. Write a note on different storage class

Q-5. Attempt any One of the Following:

- Explain following functions fopen(), fclose(), fgetc(), fputc(), fgets()
- 2. Explain following string handling functions Compare Concatenate, Reverse, Copy

[10]

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Seat No.____

M. C. A. - 1 (CBCS) Examination

January - 2011

CCA-1001 : Introduction to Programming Using C

(New Course)

Faculty Code : 003 Subject Code : 007101

Time : 3 Hours]

[Total Marks : 70

1 Answer the following multiple choice questions: 15

- (1) The array definition int marks [10] [5]defines an array of
 - (1) 10 rows, 5 columns
 - (2) 10 columns, 5 rows
 - (3) 5 tables, 10 rows
 - (4) None of these

(2) Which of the following has the highest precedence

- (1) 0
- (2) &&
- (3) **
- (4) None of these
- (3) Which of the following for loop is not valid with respect to C language.
 - (1) for $(i = 1; i \le 5;)$
 - (2) for (int i=l; i<=5;i++)
 - (3) for(;;)
 - (4) None of these
- (4) Consider the two string s1 ="SU" and s2 ="su" in C, which value is returned by strcmp(s1,s2)
 - (1) -32
 - (2) 32
 - (3) 0
 - (4) None of these
- (5) Which of the following hierarchy is true
 - (1) +,>,-
 - (2) *, / , (
 - (3) > , +, *
 - (4) None of these

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(6) In C, ++ is

operator

- (1) Ternary
 - (2) Binary
 - (3) Relational
- (4) None of these

(7) In C, consider a=6, b=7. what is the value of a and b after evaluation of following statement ++a>++b? ++a : ++b;

- +a + b + b + a
- (1) 7,9
- (2) 8,8
- (3) 6,9
- (4) None of these
- (8) Consider the following program segment and say how many times "printf("Ram\n")" statement will be executed for (i=;1;i<=10;i++)</p>

for(j=1,j<=5;j++)

(for(k=1;k<=2;k++)

if(i>j)

printf("Ram\n");

- (1) 100
- (2) 10
- (3) 70
- (4) None of these
- (9) i=4;

if(i=5)i=10; else i=20;

Consider the above statement in C. What is the value of i after evaluating the above statement.

- (1) 5
- (2) 10
- (3) 20
- (4) None of these
- (10) To access the element of structure in c which of the following operator can be used
 - (1)
 - (2) ->
 - (3) (1) and (2) both
 - (4) None of these
- (11) To access the data pointed by a pointer, which operator is used
 - (1) *
 - (2) **
 - (3) ->
 - (4) None of these

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(12) int a=4+5/(float)2.0

consider the above statement in C, What will be the value of a after its execution

- (1) 4.5
- (2) 6.5
- (3) 6
- (4) None of these

(13) printf("%c",100) statement in C

- (1) prints 100
- (2) Prints the ASCII equivalent of 100
- (3) Prints garbage
- (4) None of these

(14) Which of the following for loop of C is syntactically true

- (1) for();
- (2) for(;);
- (3) for(,)
- (4) None of these
- (15) A switch statement is used to
 - (1) Switch between two programs
 - (2) Switch from one variable to another variable
 - (3) To select from multiple conditional value
 - (4) None of these

2 Attempt any five of the following

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- (1) List the different storage class in C. Explain any one of them.
- (2) What is pointer? Briefly explain.
- (3) List the different data types available in C with its storage capacity in terms of bytes.
- (4) Differentiate : Structure Vs Union
- (5) Explain Single dimensional array.
- (6) What is algorithm ? Write an algorithm to find the maximum from three integers.

3 Attempt any three of the following :

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- (1) What is flowchart? List and explain different symbols of flowchart.
- (2) What is header file ? List different header files available in C. Explain any three functions of any one-header file.
- (3) Explain the following : fopen(), fclose(), fscanf(), fwrite(), fgetc()
- (4) Write a C program to shor the given integer array of size in n in ascending order.

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- 4 Attempt any two of the following :
 - (1) What is user define function ? Explain in detail. Write function that will perform the sum of all the elements of the array elements and returns the sum. Pass array as an argument to the function.
 - (2) What is structure ? Write a C program, which defines a structure named "stud" withj no,name, sex and marks. Program also counts the number of female and male.
 - (3) Explain two dimensional array with addition of two matrices.
- 5 Attempt any one of the following :

(1) Write a C program that will read a text file named "stud.dat" and display it contents on screen. It also gives the summary report as follow : Number of consonants : Number of vowels : Number of digits :

(2) List the different looping structures supported in C. Explain any two of them with suitable example.