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003-003102

B.C.A. (CBCS) (Sem. I) Examination November - 2011

CS-02: Problem Solving Methodologies & Programming in C

(New Course)

Faculty Code: 003 Subject Code: 003102

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

[Total Marks: 70

Instruction: Write answers of all the questions in main answer sheet.

1 Multiple Choice Question :

20

- (1) C is which type language?
 - (A) Machine
 - (B) Assembly
 - (C) Procedural-oriented
 - (D) Object-oritented
- (2) How many categories of data type in C lanaguage ?
 - (A) 2
 - (B) 3
 - (C) 4
 - (D) 5
- (3) The rule of arithmetic modulo division operator is
 - (A) Use only int data type
 - (B) Use all data type
 - (C) Use only float data type
 - (D) Use only char data type

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[Contd...

(4)	Which one known as jumping statement?
	(A) ifelse .
	(B) for loop
	(C) Ternary operator
	(D) goto
(5)	What is other name of Array variable ?
	(A) Base
	(B) Elements
	(C) Members
	(D) Subscript
(6)	Which is more appropriate for reading in multi-word string?
	(A) gets ()
	(B) printf()
	(C) scanf ()
	(D) puts ()
(7)	Arguments of functions are separated with
	(A) Comma (,)
	(B) Semicolon (;)
	(C) Colon (:)
	(D) None of these
(8)	How many way to declare structure variable?
	(A) 4
	(B) 3
	(C) 2
	(D) 1
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- (9) What is a 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) Definition occurs once, but a declaration may occur many times.
 - (D) Declaration occurs once, but a definition may occur many times.
- (10) What is other name of Backslash Character Constants ?
 - (A) Slash characters
 - (B) Space characters
 - (C) Escape sequences
 - (D) None of these
- (11) The statement chat ch='H'; would store in ch:
 - (A) The character H
 - (B) ASCII value of H
 - (C) H along with the single inverted commas
 - (D) Both A and B
- (12) The body of the loop contains only a semicolon, known as a :
 - (A) NULL value
 - (B) null statement
 - (C) NULL loop
 - (D) Infinite loop
- (13) In array int x[5]; the name x represent as:
 - (A) Base address
 - (B) Member
 - (C) Value of first element
 - (D) Index

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[Contd...

(1			linker combines different object files to produce all which type of file?	
			Library file	
			Executable file	
		(Ċ)	Source file	
		(D)	None of these	
(1			o-while loop is useful when we want that the	
			ements within the loop must be executed:	
			Only once	
			At least once	
		. ,	More than once None of the all	
(1	16)	Who	at will be output if you will compile and execute the	
()			owing C code?	
			clude <stdio.h></stdio.h>	
		#def	fine x 5+2	
		void	l main ()	
		{		
			int i; i=x*x*x;	
			printf("%d", i);	
		}		
	,	(A)	27	manifestation of the second
		(B)	147	
			Compiler error	
		(D)	Runtime error	
(at will be output if you will compile and execute the	
			owing C code ?	
			clude <stdio.h></stdio.h>	
		void	d main ()	
		{		
			int i=4, x;	
			x=++i + ++i + ++i;	
			printf("%d", x);	
		(4)	}	
		(A)	12 21	
		(B) (C)		
		(D)		
		(D)	Compiler error	
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(18) What will be output of following C code?
        #include<stdio.h>
        extern int x;
        void main () {
          do{
            do{
         printf("%o",x)
           while(!-2);
          while(0);
        int x=8;
        (A) 8
        (B) 10
         (C) 6
        (D) Compilation time error
    (19) What is the output of the following C code?
        #include<stdio.h>
        void main ()
             printf("%d", printf(""BCASEM1));
         (A) 7
         (B) Complication time error
         (C) Runtime error
         (D) BCASEM17
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                                                     [Contd...
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(20) What will be output of following C code?
        #include<stdio.h>
        void main ()
             int i=0;
             for(;i;)
                  printf("\nHellow how are you");
         (A) Hellow how are you
         (B) Complication error
         (C) Runtime error
         (D) Nothing to display
                                                                6
        Attempt the following: (any three)
         (1) What is typecasting?
         (2) Explain the rules of variables name.
         (3) Explain ternary operator with an example.
         (4) Explain fflush () with an example.
         (5) Explain the typedef keyword with example.
             What is directive statement.
                                                                9
        Attempt the following: (any three)
             What is an array? Explain 1-D array with an
             example.
         (2) Differentiate: Local variable v/s static variable.
         (3) How to define structure with an example.
         (4) Differentiate: break v/s continue.
             What is prime number? Draw a flowchart to print
             prime number from 1 to 100 number.
             Write algorithm for input one integer and print sum
              of even and odd digits sum.
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                                                         [Contd...
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		(1)	Explain various data types in C language.		
		(2)	Explain the elements of function.		
		(3)	Explain passing entire array to function with an example.		
		(4)	Explain memory allocation of structure with an example.		
		(5)	Explain importance of preprogramming techniques.		
3	(a)	Atte	empt the following: (any three)	6	
		(1)	Write any two advantage of UDF.		
		(2)	What is header file?		
		(3)	Explain increment prefix and postfix operator.		
		(4)	Why 'goto statement" is not advisible to use in C language.		
		(5)	What is an infinite loop?		
		(6)	What is an Union?		
	(b)	Atte	empt the following: (any three)	9	
		(1)	Differentiate : getch(), getche(), getchar()		
		(2)	Explain any two string handling function.		
		(3)	Explain nesting ifelse with an example.		
		(4)	Differentiate: While loop v/s dowhile loop.		
		(5)	What is a flowchart? Use of various symbols in flowcharts.		
		(6)	Explain scope of variable.		
	(c)	Atte	mpt the following: (any two)	0	
		(1)	Explain C program structure.		
		(2)	Write a program to print and sum of following series:		
			$1-x^2/2! + x^4/4!-x^6/6!N$ terms		
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(c) Attempt the following: (any two)

10

(3) Write a program to print following triangle:

Α

BA

ABA

BABA

ABABA

(not static but user can input no. of rows.)

- (4) Write a program to given number is armstrong or not using function with argument, with return value.
- (5) Write a program to print student information in table format and sort ascending order on name field, use the following structure:

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