

003-003102

B.C.A. (CBCS) (SemI) Examination
December-2013
CS-02 : Problem Solving Methodologies & Programming in C
(New)

Faculty Code : 003 Subject Code : 003102

Time: 2½ Hours]

[Total Marks : 70

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

1. Multiple Choice Question :

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- (1) 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) a definition occurs once, but a declaration may occur many times.
 - (d) a declaration occurs once, but a definition may occur many times.
- (2) C us supported by the following operating system :

(a)	Unix	(b)	Linux
(c)	Windows	(d)	All of above

- (3) C is the _____ language.
 - (a) low level(b) high level(c) both low and high level(d) none of these
- (4) int x = 2 * 3 + 4 * 5;

What value will x contain in the sample code above ?
(a) 22
(b) 26
(c) 46
(d) 50

(5) Which is the type of int ?

(a) Int
(b) Unsigned int

(a)	Int	(b)	Unsigned int
(c)	Long	(d)	All of above

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(6) Which is not the fundamental data types ?				types ?
	(a)	Char	(b)	Array
	(c)	Int	(d)	Float
(7)	In _	language `\a` used	l for	
	(a)	Form feed	(b)	Line break
	(c)	Alarm	(d)	None of above
(8)	The	arithmetic operator '%' c	an be	used with
	(a)	int	(b)	float
	(c)	double	(d)	void
(9)	Whi	ch is not the string handli	ng fu	nction ?
	(a)	strlwr();	(b)	streat();
	(c)	stremp();	(d)	none of these
(10)	An a	array can be declared		
	(a)	Statically	(b)	Dynamically
	(c)	Both	(d)	None of these
(11)	Whi	ch term is not related to f	unctio	on?
	(a)	Prototype	(b)	Definition
	(c)	Call	(d)	Receive
(12)	Whi	ch is the file opening mod	ie?	
	(a)	a	(b)	wb
	(c)	rb	(d)	all of above
(13)	Whi	ch is not the selective cor	trol f	low statement ?
÷	(a)	while	(b)	rif
	(c)	switch-case	(d)	if-else
(14)	Whi	ch is the correct example	of la	bel?
	(a)	Label:	(b)	Label:
	(c)	Label.	(d)	# Label
(15)	And	efficiency algorithm		_
	(a)	takes efficient time	(b)	takes efficient memory
	(c)	both	(d)	none of these
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	(16)	In C	language size of is?			
		(a)	Keyword	(b)	Operator	
		(c)	Variable	(d)	Not exist	
	(17)	Mat	hematical function are sto			
		(a)	stdio.h	(b)	conio.h	
		(c)	math.h	(d)	string.h	
	(18)	A fi	inction can return only		<u>. </u>	
		(a)	Single value	(b)	Two value	
		(c)	Many value	(d)	None of these	
	(19)	Wh	ich is the string termination	on cha	aracter ?	
		(a)	`\n'	(b)	./p.	
		(c)	·\0'	(d)	None of these	
	(20)	C h	as keywords.			
		(a)	30	(b)	- 31	
		(c)	32	(d)	33	
2.	(a)	Atte	empt the following : (any	three	e)	6
		(1)	Explain if-else statement	t with	n example.	
		(2)	List out available operat	ors ir	C. Explain any one.	
		(3)	Explain #define.		9 5	
		(4)	Explain stremp() and str	rcat() functions.	
		(5)	Explain break statement			
		(6)	Explain calloc() functio	n wit	h example.	
	(b)	Atte	empt the following : (any	three	e) :	9
		(1)	Explain exit control loop) .		
		(2)	What is array ? Explain	one c	limension array.	
		(3)	Explain pointer to struct	ure.		
		(4)	Explain fwrite() and fre	ad()	functions.	
		(5)	Explain return statemen	t.		
		(6)	Explain continue statem	ent.		
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	(c)	Attempt the following : (any two)	10
		(1) Explain switch case statement with example.	
		(2) Explain storage classes available in C language.	
		(3) Write a note on general structure of C program.	
		(4) Explain data types available in C language.	
		(5) Explain call by value and call by reference with example.	
3.	. (a)	Attempt the following : (any three)	6
		(1) Differentiate getch() and getche().	
		(2) Explain type casting.	
		(3) Explain fabs() and fmod() functions.	
		(4) Write a note on C constants.	
		(5) Write a note on pointer.	
		(6) Explain two dimensional arrays.	
	(b)	Attempt the following : (any three)	9
		(1) Write down rules for giving variable names.	
		(2) Write an algorithm to check whether the number is positive,	
		negative or zero. (3) Write a note on union.	
		(4) Explain flowchart with its symbols.	
		(5) Explain nesting of loops with example.	
		(6) Explain back slash codes with examples.	
	(c)	Attempt the following : (any two)	10
		(1) Write a program to enter any 10 values in array and sort them in ascending order.	
		(2) Write a note on UDF.	
		(3) Explain recursion with example.	
		(4) Explain command line argument with example.	
		(5) Write a program to print following :	
		1	
		2 2	
		3 3 3	
		4444	
		5 5 5 5 5	
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