

## First/Second Semester B.E. Degree Examination, January 2013 Computer Concepts and C Programming

Γime	: 3 h	nrs. Max. Ma	arks:100
Not	2	l. Answer FIVE full questions choosing at least two from each part. Answer all objective type questions only in OMR sheet page 5 of the Answer. Answers to objective type questions on sheets other than OMR will not be val	
		<u> PART - A</u>	
1	a.	· ·	04 Marks)
		i) Which of the following is not an input device. (A) plotter (B) scanner (C) key board (D) mouse	
		ii) Conversion of single program to M/C language is done by	
		(A) linker (B) compiler (C) editor (D) OS	
		iii) Computer is controlled by	
		(A) Hardware (B) Software (C) Instructions (D) Statement	
		iv) Computer converts data into	
	h	(A) Information (B) Charts (C) I/P, O/P (D) Software Explain the basic structures of a computer, with a neat diagram.	06 Marks)
	b. c.		06 Marks) 06 Marks)
	d.		04 Marks)
			04 Marks)
2	a.	Choose the correct answer:  i) DOS is an example of interface.	OT Marks,
		(A) Command line (B) Check box (C) Graphical (D) Parallel	
		ii) Email is a system for exchanging messages through a	
		(A) client (B) program (C) Network (D) back bone	
		iii) Every webpage has a unique address, called a	
		(A) Hyperlink (B) URL (C) HTTP (D) www	
		iv) In a n/w all devices are connected to a hub  (A) bus (B) star (C) ring (D) mesh	
	b.		06 Marks)
	c.		06 Marks)
	d.		04 Marks)
,	a.	Choose the correct answer:	04 Marks)
	٠	i) 'C' is what kind of language?	·
		(A) Machine (B) Procedural (C) Assembly D) Object oriented prog	gramming.
		ii) The hexadecimal constant is preceded by:	
		(A) OX (B) O (C) HX (D) H	
		iii) The number 025 is number. (A) Decimal (B) Octal (C) Hexa (D) Binary	
		(A) Decimal (B) Octal (C) Hexa (D) Binary iv) The operator % yields	
		(A) Quotient (B) Percentage (C) Reminder (D) Fractional part	
	b.		04 Marks
	c.	21. Promise 19 Provide 11 Provide 12 Provide	06 Marks
	d.	Explain formatted input and output functions.	(06 Marks)
4	a.	Choose the correct answer:	(04 Marks)
		i) What is the size of character in bytes?	
		(A) 1 (B) 2 (C) 3 (D) 4	
		ii) Puts is function (D) None	
		(A) i/p (B) o/p (C) Input output (D) None  iii) The conversion specifier is used to represent string	
		iii) The conversion specifier is used to represent string (A) % d (B) % c (C) % f (D) % s	
		iv) Keywords are	
		(A) Identifier (B) Reserved words (C) Variable (D) None	
	b.	What do you mean by type conversion? Explain explicit type conversion with examples. (	(04 Marks)
	c.	Explain the following operators with examples: i) Conditional ii) Size of iii) Bitwise. (	(09 Marks)

	d.	Determine the value of a each of the following logical i) $a > b & a > c$ ii) $b > 15 & c < 0   a > c$								
		PART	Г - В			•				
5	a.	Choose the correct answer:				(04 Marks)				
		i) The default return type of a function is				(**************************************				
		(A) int (B) float	(C)	char	(D) double					
		ii) How many values returned by functions by defau	ılt		•					
		(A) ONE (B) TWO	(C)	THREE	(D) FOUR					
		iii) Which is not a variable storage class			•					
		(A) Automatic (B) Extern		Static	(D) Dynamic					
		iv) Which keyword is used to declare external varial			(D) N					
	b.	(A) external (B) extern	(C)	auto extern	(D) None	(0 ( ) ( ) )				
	c.	Explain the elements of user defined functions.  Write a function prime that returns 1 if its argument is	5 0 mm	ma numbar and	watuuma () Oth amuulaa	(06 Marks)				
	C.	Write a function prime that returns 1, if its argument is a prime number and returns O. Otherwise, same function, write a program to check whether the number is prime or not.								
	d.	Write a note on parameter passing techniques.	iumoc	a is prime or not	,	(05 Marks) (05 Marks)				
	۵.					` ′				
6.	a.	Choose the correct answer:				(04 Marks)				
		i) Multi way decision making using	(0)	1.91	(D) 1.1					
		(A) if (B) for	(C)	while	(D) switch					
		ii) 5 > 3? printf ("hello": printf ("C"); (A) hello (B) C	(C)	halla C	(D) Name					
		iii) The result of an expression 2 > 8 & & 2 < 8 is	(C)	hello C	(D) None					
		(A) True (B) False	(C)	10	(D) 20					
		iv) Size of (float) is	(0)	10	(D) 20					
		(A) 2 (B) 4	(C)	8	(D) 1					
	b.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								
		number, assume day one is Monday.				(06 Marks)				
	c.	. Write a program to find the given number is palindrome or not using while loop. (05 Ma								
	d.	Write a program to find square of a given number usin		loop.						
		(Note: Find square using successive addition method)				(05 Marks)				
7	a.	Choose the correct answer:				(04 Marks)				
		i) Array is an example of data types				(011111110)				
		(A) Derived (B) Basic		User defined	(D) None					
		ii) An array a [5] consists of number of ele	ment	S.						
		(A) 10 (B) 5	(C)	25	(D) None					
		iii) An array a [5] [3] consists of elements.								
		(A) 5 (B) 3	(C)	15	(D) None					
		iv) Which of the following is not a data structure	(0)	0	(D) D : .					
	b.	(A) Linked list (B) Stack Explain how a 1 – Dimensional array can be declared a		Queue	(D) Pointer	,				
	ο.	elements of an array.	anu m	mianzeu, write a	program to add an ti	ne n (06 Marks)				
	c.	Explain the following string handling functions, with e	xamr	oles : i) Streat	ii) Strepy.	(06 Marks)				
	d.	Write a C program to multiply A[M X N] and B[P X (	)] mai	trices and stores	the result in C matrix	(06 Marks)				
			<1	and stores	one result in e much	,				
8	a.	Choose the correct answer:	. •			(04 Marks)				
		i) Parallel computing is execution of instruction (A) Simultaneous (B) Serial			(D) Com-1-t-					
		ii) Which of the following is not a synchronization of		Accurate	(D) Complete					
		(A) Single (B) Master		Section	(D) Critical					
		iii) How many threads would be created for the paral			$= 0 \cdot y < 10 \cdot v + 1$	- ) { \9				
		(A) 10 (B) 9	(C)		(D) 0	71 Ji				
		iv) Which of the following does not signify the need			(-) •					
		(A) Enhanced performance		Reduced proces	sor idle time					
		(C) Hidden memory latency time		Error – free con						
	b.	Explain the data handling in open MP.	-		-	(06 Marks)				
	c.	What is thread? Explain the need for threads.				(06 Marks)				
	d.	Write a note on environment variables of open MP.				(04 Marks)				