USN	

A) -250

First/Second Semester B.E. Degree Examination, Dec.2013/Jan.2014

Computer Concepts and C Programming

Tit	ne: (3 hrs.		Max. Marks:100
No	2	 Answer any FIVE full questions, choosing Answer all objective type questions only in Answer to objective type questions on sheet 	OMR sheet page 5 of t	he answer booklet.
		PART –		
1	a.	Choose the correct answers for the following	(04 Marks)	
		i) Which of the following is not a type of	•	
		A) 5-pin connector	B) 6-pin connector	
		C) 8-pin connector	D) USB-connector	
		ii) Which of the following is not an output	-	D) CDT
		A) printer B) keyboard	C) VDU	D) CRT screen
		iii) Who is called the father of the compute		
		A) Balise Pascal C) Joseph Jacquard	B) Charles Babbage D) Dr. Hewrman Ho	
		iv) Which generation of computers is cove	•	
		A) First B) Second	C) Third	D) Fourth
	b.	Briefly explain about the various generations	/	(06 Marks)
	¢.	With a neat figure, explain how instructions a	•	
	d.	Describe briefly about the various keys presen	•	
		December officially account the various helps process		(00 11111111)
2 a. Choose the correct answers for the following:			:	(04 Marks)
		i) Which is a secondary memory device?		, ,
		A) CPU B) ALU	C) Floppy disk	D) Mouse
		ii) If you want to execute more than one p		ems software that you
		must be capable of	•	·
		A) word processing B) virtual memor	ry C) compiling	D) multitasking
		iii) A translator which reads an entire pr	rogram written in a high	h level language and
		converts it into machine language code	is	
		A) assembler B) translator	C) compiler	D) system software
		iv) Which of the following is not an Applic		•
		A) Word processing	B) Spreadsheet	
		C) UNIX	D) Desktop publishi	
	b.	Explain in detail about the construction and o		
	c.	Briefly write about various computer process	•	
	d.	List the different network components with ex	xamples.	(04 Marks)
3	a.	Choose the correct answers for the following		(04 Marks)
J	a.	i) The flowcharting symbol Diamond Sha		(OT MINIES)
		A) Start B) Process step	C) Decision	D) End
		ii) Which of the following is not a keywor	,	D) Like
		A) char B) break	C) triangle	D) long
		iii) Which of the following is an input func		~ / ·······o
		A) scanf B) printf	C) puts()	D) putchar()
		iv) Which of the following is a valid integr		-/ F()

C) -31.89

B) 4,442

D) +3,728.2

3	b. c. d.	With an example, explain the structure of a typical C program.			(06 Marks) (06 Marks) (04 Marks)		
4	a.	Choose the correct answers for the following:				(04 Marks)	
		i)		- ·	perator in C language?	T)\ 6-	
		ii)	A) < Which of the following	B) > = ng is a special operator	C) != r in C language?	D) &	
		11)		B) $\log (x)$	C) exp (x)	D) sin (x)
		iii)			n only operand.	- , (,
		-	A) one	B) two	C) three	D) four	
		iv)		what is the result for be	%d operation?		
			A) one	B) two	C) three	D) 3.33	
	b.	-	ain relational operators	•	v •		(06 Marks)
	C.		an example, explain the	÷ ÷			(04 Marks)
	d.	Expla	ain in detail about Bitw	vise operators in C ian	guage.		(06 Marks)
_		61		$\frac{PART - B}{SH}$			
5	a.		ose the correct answers				(04 Marks)
		i)	The function that call: A) forwarding function		B) conditional function		
			C) recursive function		D) backward function		
		ii)	•	work is defined in	-	1	
		,	A) stdio.h	B) conio.h	C) string.h	D) math.	h
		iii)		*	tion call are called as		
			A) actual parameters	•	B) formal parameters		
		C) no parameters D) none of these					
iv) Which of the following return statements in a function has error?							
			A) return		B) return(0)		
	1	3371 4	C) return(expression)		D) none of these		
							(04 Marks)
	c. d.	Describe the two ways of passing parameters to function with examples. (08 Marks) Write a program to test whether or not a given integer number is prime with function.					
	u.	******	a program to test whe	ther or not a given in	eget number is prime v	vitii iulicti	(04 Marks)
6	a.	Choo	se the correct answers	for the following:			(04 Marks)
		i)			an entry controlled loc	p?	`
			A) while	B) do-while	C) for	D) none	
		ii) Which of the following is a conditional statement that tests a value against diffe values?					
			A) while	B) for	C) switch	D) if	
		iii)	Which of the following	ng is not a jump statem	nent?	•	
			A) break	B) continue	C) go to	D) for	
		iv)	,				
			A) if	B) do-while	C) while	D) if-else	
	•			(04 Marks)			
 c. Write a program to compute the sum of N numbers using the for loop. d. Write a program to check whether the given alphabet is a vowe statement. 						(06 Marks)	
				aiphabet is a vowel of	or not us	_	
		statel	nent.				(06 Marks)

7	a. Choose the correct answers for the following:				(04 Marks)			
		i)	In an array $a[5] = \{10, 20, 30, 40, 50\}$; the element 40 is designated as					
		,	A) a[0]		C) a[3]			
	ii) In an array int $a[2][3] = \{10, 20, 30, 40, 50, 60\}$; the $a[0][1]$ e					element is		
			A) 10	B) 40		D) 20		
iii) Which of the following string handling function is used to add two s					d two strings?			
				B) strncat()		D) strlwr()		
	iv) Which of the following string handling function is used t							
			A) strlen()	B) stremp()	C) strcpy()	D) strrev()		
b. Define an array. How are they declared in C language?					(04 Marks)			
	c.	Write	e a program to read tw	vo matrices from ke	yboard and print the	sum of two matrices.		
						(07 Marks)		
	d.	Write	e a program to test wh	ether the given stri	ng is a Palindrome or	not. (05 Marks)		
8	a.	Choo	ose the correct answer	es for the following	:	(04 Marks)		
i) Thread is defined as stream of control flow in a progr				ram code.				
		-/	A) zero	B) single	C) control	D) none of these		
ii) Open MP programming model offers parallel directives for								
		A) Shared Memory Access			B) Zero Memor	B) Zero Memory Access D) None of these		
	C) Multiple Memory Access			Access	D) None of thes			
	iii) execution of instructions in a computer system is refer				is referred to as parallel			
computing.								
			A) Serial	B) Sequential	C) Accurate	D) Simultaneous		
		iv)	Open MP stands for					
ŕ			A) Open Multi-Parallelism			B) Organized Multi-Programming		
			C) Open Multi-Proc			Iulti-Parallelism		
	b.	Wha	t are threads? Give the	e advantages and di	sadvantages of multip	ole threads. (06 Marks)		
	c. Bring out the scope for Parallel computing.					(06 Marks) (04 Marks)		
	d.	d. Explain "Parallel computing" in detail.						

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