P P SAVANI UNIVERSITY

First Semester of B. Tech. Examination May 2019

SECE1020 Introduction to Computer Programming

24.05.2019, Friday Time: 12:30 p.m. To 3:00 p.m.

Maximum Marks: 60

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	Instruction 1. The q		elms \
	2 Section	uestion paper comprises of two sections.	
	3 Make	on I and II must be attempted in separate answer sheets.	
	4. Use of	suitable assumptions and draw neat figures wherever required. f scientific calculator is allowed.	
		ostonenie carculator is allowed.	
		SECTION - I	
	Q-1	Answer the following. (Any Five)	2271111
	(i)	ROM stands for	[05]
	(ii)	The control string for 'int' datatype is	
	(iii)	Algorithm is step by step colution of any 11 cm.	
	(iv)	Algorithm is step by step solution of any problem (True/False).	
7	(1.1)	In a pretest loop, if body is executed n times, the test expression is executed n+1 times (True or False).	
	(V)		
	(•)	How many times printf statement will execute? for(;;)	
		printf("hello");	
	(viii)	What is Ternary Operator in C?	
	(vii)	C was developed by	
	Q-2(a)	Explain any five operator categories (with examples) present in Clanguage.	[05]
	Q-2(b)	Write a program to display following pattern.	[05]
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	0 0()	OR	
	Q-2(a)	Explain the block diagram of computer.	[05]
	Q-2(b)	Explain different kinds of tokens present in C.	[05]
	Q-3(a)	Draw a flowchart to find largest among three numbers.	[05]
	0-3 (b)	Evnlain different centual at a second	
1	(, 3 (0)	Explain different control structures present in C language.	[05]
		OR	
	Q-3(a)	Differentiate between flowchart and algorithm	[05]
	0 200	W.	[oo]
	Q-3 (b)	Write a program to develop calculator application using switch-case statement.	[05]
	Q-4	Attempt any One	[05]
	(i)	Differentiate between RAM and ROM.	
	(ii)	Differentiate between Machine level language and High level language.	
		SECTION - II	
	Q-1	Answer the following (Any Five)	[05]
	(i)	Differentiate between 'variable' and 'array'.	[oo]
	(ii)	Union is collection of different type of elements (True/False).	
	(iii)	Two operators used in Pointer are and	
	(iv)	Which file management function is used to move the control from position of file to	
		another?	

(v)	operator is used to access the data elements of Structure.	
(vi)	What is Array of Pointers?	
(vii)	What is inbuilt function?	
Q-2(a)	Write a program with output and explanation to calculate the sum and average of an array using for loop.	[05]
Q-2(b)	What is Pointer? Write a note on Pointer initialization.	[05]
	OR	[oo]
Q-2(a)	Explain any four string inbuilt functions (with example).	[05]
Q-2(b)	Write a program to find maximum as well as minimum element from an array.	[05]
Q-3(a)	Write a program to concatenate two strings in C.	[05]
Q-3(b)	Differentiate between Array and Structure.	[05]
	OR	[oo]
Q-3(a)	Write a program to find factorial of a number using recursive function.	[05]
Q-3(b)	Explain different file management functions used in C.	[05]
Q-4	Attempt any One.	[05]
(i)	Differentiate between Structure and Union.	[oo]
(ii)	Differentiate between call by value and call by reference.	
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