P P SAVANI UNIVERSITY

First Semester of B. Tech. Examination May 2019

SECE1010 Basics of Computer & Programming

24.05.2019, Friday
Instructions:

Time: 12:30 p.m. To 3:00 p.m.

Maximum Marks: 60

2. Se	the question paper comprises of two sections. Ction I and II must be attempted in separate answer sheets. Aske suitable assumptions and draw neat figures wherever required.	
4. Us	e of scientific calculator is allowed.	
	SECTION - I	
Q-1	Fill in the Blanks. (Any Five)	
(i)	The speed of computer is calculated in	[05]
(ii)	The memory that resides inside the processor is called	
(iii)	1 KB = bytes.	
LA	A program that translates the assembly language code into machine language code is	
	known as	
(v)	The language translator that translates the program written in high-level language into its	
	corresponding machine code is called	
(vi)	Two types of memory are and	
(vii)	Diamond Symbol in flowchart is used for	
Q-2(a		[05]
	the functions of various units of a computer system.	[oo]
Q-2(1	Differentiate between Static RAM and Dynamic RAM.	[05]
	OR	(4)
Q-2(a	Draw the flowchart to print greater number out of given two numbers.	[05]
Q-2(1	y at 3. Beserve various units of the CPO in detail.	[05]
(a	What are registers? Enlist five registers with their functions.	[05]
Q-3(b	What is ROM? Differentiate EPROM and EEPROM.	[05]
.0	OR OR	
Q-3 (a	Ti butters.	[05]
Q-3 (b	71 - Forming System.	[05]
Q-4	Attempt any one.	[05]
(i)	Explain the different data types available in C programming language.	
(ii)	What is a constant? Explain the usage of constants in C programming language.	

SECTION - II

	DEGRACIO II	
Q-1	Answer the following questions. (Any Five)	[05]
(i)	What is the size of the array initialized as: int a[]={1, 2, 3, 4}?	
(ii)	Is it valid to use for loop as shown below? Justify your answer.	
	for(;;)	
(iii)	Write the output of the following c code:	
	printf("The world is very beautiful:\nThe value is %5.2f", 54.7865)	
(iv)	In dowhile(), loop body is executed minimum zero times. State if it is True or False.	
(v)	If char str[] = "India", what is the output of printf("%d", strlen(str)); ?	
(vi)	What is the output of following line of c code written in main()?	
	printf("%d", a=5*6.5/2);	
(vii)	Write the output for the following C code:	
	void main()	
	{	
	int a = 10;	10
	printf("%u", sizeof(float(a)));	
	And was first should did as next the arrives and a subdivision in a subdivision of the series and sold and	
Q - 2 (a)	Explain while loop in C language with a suitable programming example.	[05]
Q - 2 (b)	Write a program to count number of digit in a given number. Hint: if given number is 4567	[05]
	then number of digits is 4.	
	OR	
Q - 2 (a)	What is an array? How to declare the array in C programming language? Show with	[05]
	proper example.	
Q-2(b)	Write the syntax and use of strlen() and strcat().	[05]
Q-3(a)	Write a program to read 10 numbers in the array and print the sum of all values.	[05]
Q-3(b)	Explain if()else if()else statement with example.	[05]
	OR	-
Q - 3 (a)	Explain different types of operator in C programming language.	[05]
Q - 3 (b)	Write a program using ternary operator to find the greatest number out of given three	[05]
28	numbers.	
Q-4	Attempt any one.	[05]
(i)	What is a function? Write a function to add two integer numbers.	
(ii)	Create a structure to store the information of a book and show its use in main().	
