	Code No.: 1115 S	S
	VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD B.E. I Year I-Semester (Supplementary) Examinations, May/June-2016	
	Time: 3 hours Note: Answer ALL questions in Part-A and any FIVE from Part-B	
	Part-A (15 Marks)	
1.	List the differences between RAM and hard drive.	[1]
2.	The use of <i>go-to</i> statement is considered unstructured programming. Justify.	[1]
3.	Declare and initialize an array of ten integers.	[1]
4.	Given the following definitions: char a[20]={'z', 'x', 'm', 's', 'e', 'h'}; char* pa=a; int i=2; int j=4; int* pi=&i Write the value of the expressions given below: *(pa+j) *(pa+*pi)	[1]
5.	Define a C structure for storing a product in a grocery store.	[1]
6.	A line of code in C language reads $x=2*4+3/6+2$; What value does x carry after the operation? Assume x to be a <i>float</i> variable.	[2]
7.	What is the role of functions in designing structured programs?	[2]
8.	Write a function that takes an array as one argument and returns the average of the values in the array.	[2]
9.	Give the syntax and explain the working of calloc function.	[2]
10	. Write a C program to open a file and display the contents of the file in the standard output.	[2]
	Part-B (5 X 7 = 35 $Marks$)	
11	. a) A quiz was conducted in a class of 60 students and it was decided to give prices for the first and the second winners. Draw a flowchart to figure out the first and second winner based the marks they got for the quiz from a list of unsorted marks.	st on [3]
	b) What are the differences between machine level, symbolic and high level languages? Describe the three tools that a programmer may use to develop a program solution.	[4]

12.	a) Write a program that takes as input a number n and outputs a number triangle up to n as follows. If 3 is the input, the number triangle is	[3]
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	b) Compare and contrast the iterative (looping) statements in C with examples.	[4]
13.	a) Write recursive solution for finding the n th power of x. (Read x and n values from the user)	[3]
	b) Apply and explain any one of the sorting methods on the input 2,4,3,1,5,6.	[4]
14.	a) There are 20 students in a class. Write a function to compare the names of students and find out if any two names are same without using built-in C string manipulation function.	[3]
	b) Illustrate a method using pointers to store an array of strings.	[4]
15.	a) Explain the syntax of the <i>fprintf</i> function in C.	[3]
	b) Write a program that takes as command line argument the name of an existing file; creates another file and writes the contents of the first file into the second file in reverse order.	[4]
16.	a) Write a program that takes as input a number n and outputs the Fibonacci series up to n terms.	[3]
	b) Explain the water fall model of software development life cycle.	[4]
17.	Write short notes on any two of the following.	[7]
	a) Use of Preprocessor Commands to define macros (with examples).	
	b) Pointer arithmetic in C.	
	c) Self-referential structures.	
	10. Write a C program to open a file and display the contents of the life, a the standard and	

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