Reg. No.: Name: Third Semester B.Tech. Degree Examination, October 2016	/ / 1 % .
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Third Semester B.Tech. Degree Examination, October 2016	1.5.
(2008 Scheme) 08.302 : PROBLEM SOLVING AND PROGRAMMING IN C (RF)	6
Time : 3 Hours Max. Mark	s : 100
PART – A Answer all questions.	
1. What is the importance of documentation in program development?	4
Explain the types of programming languages used with a computer for proble solving and application development.	m 4
3. Write an algorithm in pseudo-code for printing an array in reverse direction.	4
 What is the role of header files in compilation process? List four header files used in C. 	= 14
 5. Explain the bit-wise operators in C. 6. Write a C program to reverse a given integer number. 	1000g 4
5. Explain the bit-wise operators in C.6. Write a C program to reverse a given integer number.	× 4
7. Explain the parameter passing methods in C.	4
8. Write a C program to read a text file and display the output on display.	4
9. How would you declare an function receives two int pointers and returns a flo pointer?	oat 4
10. With an example, explain command line arguments in C. (10×4=40)	4 Marks)
PART-B	
Answer any one full question from each module.	
Module – 1	
11. a) Draw a flowchart to find the biggest of three numbers.b) With suitable examples, explain different types of programming languages	8 s. 6
 c) What is the importance of selecting efficient data structure for problem solving? OR 	6 P.T.O.

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12.	a)	How do we analyze the performance of a program?	6
	b)	Write an algorithm to find the length of a given string.	5
	c)	Explain with an example, the concept of top-down design.	9
		Module – 2	
13.	a)	Write a C program to implement selection sort algorithm.	12
	b)	Write a C program to read postal address of say n employees and to display the same on the screen.	8
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14.	a)	Given an unsorted array A[1n] which contains all but one of the integers in the range 0 to n. Write an efficient C program to determine the missing integer.	10
	b)	Explain the purpose of extern storage class with an example.	10
		Module - 3	
15.	a)	Write a program in C to read the details of customers in a bank using array of structures. Use a pointer to retrieve those customers who have a loan in the bank.	8
	b)	Write a function to interchange the values of two variables without using temporary variable. Use parameter passing by reference in your code.	7
	c)	Explain the differences between structures and union data types in C.	5
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16.	a)	Write a recursive function in C to compute X ⁿ .	10
	b)	Write a program in C to read a text file and count characters, spaces and tabs in it.	10
		(3×20=60 Mar	ks)

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