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Code No: R10105

R10

SET - 1

I B. Tech I Semester Supplementary Examinations, Nov/Dec - 2017 C PROGRAMMING

(Com. to All Branches)			
Time: 3 hours Answer any FIVE Questions All Questions carry Equal Marks			
	b)	Explain different steps in creating and running a C program.	(4M)
	c)	Illustrate pre - increment and decrement, post - increment and decrement operators with examples.	(6M)
2.	a)	Discuss about various bitwise operators with examples.	(7M)
	b)	What are the advantages of switch statement over if-else statement? Give the syntax of these statements and explain.	(4M)
	c)	Write a program to swap the integer values between two variables using bitwise operators.	(4M)
3.	a)	Write a C program to check whether given string is palindrome or not without using string handling functions.	(5M)
	b)	Give a comparison between the statements for, while and do-while loops.	(5M)
	c)	What is a string? How to initialize a string? Explain about various string handling functions.	(5M)
4.	a)	What is an array? Explain about initialization, accessing, and printing the array elements.	(8M)
	b)	Write a C program to multiply two given matrices.	(7M)
5.	a)	Describe categories of functions based on arguments and return type.	(7M)
	b)	Explain the following terms: (i) User defined functions (ii) library functions (iii) header files (iv) C pre-processor	(8M)
6.	a)	What is dynamic memory allocation? Explain different dynamic memory management functions available in C.	(6M)
	b)	What is a pointer? Explain how the pointer variable declared and initialized.	(4M)
	c)	Give the usage of command line arguments with example.	(5M)
7.	a)	How to declare and access elements of a union in C? Explain with an example.	(5M)
	b)	What is a nested structure? When is it useful? Give its syntax.	(5M)
	c)	Briefly discuss about self referential structures with example.	(5M)
8.		Explain about the following functions: (i) fopen() (ii) fclose() (iii) fread() (iv) fwrite() (v)	(15M)

rewind() (vi)fprintf() (vii) fscanf() (viii) feof().