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Question Paper Code: ACS001



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech II Semester End Examinations (Regular) - May, 2017

Regulation: IARE – R16 Computer Programming (Common for AE/CE/ME)

Time: 3 Hours Max Marks: 70

Answer ONE Question from each Unit All Questions Carry Equal Marks All parts of the question must be answered in one place only

UNIT - I

(b) Write a C program to find whether a given year is leap year or not using ternary operator. [7] 2. (a) Explain with examples any 4 data type to store numeric's in C programming language? [4] (b) Write a C program to evaluate the polynomial shown below: 4x ⁴ + 9x ³ + 7x - 28 (c) What is type casting? Explain with example. UNIT - II 3. (a) Explain about dangling else problem with an example. (b) Write a program to reverse a given string without using string library functions. [8] 4. (a) Describe multi branching statement in C using its syntax and flow chart. (b) Write a C program to remove duplicate elements in an integer array. [9] UNIT - III 5. (a) Using an example compare the declarations char a[] and char *a. [5] (b) Write a C program to demonstrate the Call By Value and Call By Reference functions by take an example of swapping the values of two variables. [9]			01.22 2			
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		$\mathbf{UNIT}-\mathbf{IV}$				

7. (a) What is dynamic memory allocation? What are the functions used for it? Explain.

(b) Write a C Program to add two complex numbers by passing structure to a function.

[8M]

[6M]

8.	(a)	What is Structure in C? Create a Structure to store DATE and write a function to add 2	dates.
			[8M]
	(b)	Explain following with example:	[6M]
		i. malloc()	
		ii. calloc()	
		iii. realloc()	
		$\mathbf{UNIT} - \mathbf{V}$	
9.	(a)	Give the syntax for opening a file. Explain various modes of opening a file.	[7M]
	(b)	Write a C program to count no of lines, words and characters in a file.	[7M]
10.	(a)	Give the syntax and description of the following.	[8M]
		i. fgets()	
		ii. fgetc()	
		iii. fputs()	
		iv. fputc()	
	(b)	Write a C program to add two numbers using command line arguments.	[6M]
		$-\circ\circ\bigcirc\circ\circ-$	