Hall Ticket No						Question Paper Code: ACS001



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech I/II Semester Supplementary Examinations - July, 2017

Regulation: IARE – R16

COMPUTER PROGRAMMING

[Common for : I Semester (CSE, IT, ECE and EEE) | II Semester (AE, CE and 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

1. (a) Draw and explain the structure of C program.

[7M]

(b) List the basic data types used in C and give their sizes.

[7M]

2. (a) Draw a flow chart to find the GCD of two numbers. (Don't use division and mod operations).

[7M]

(b) List all the operators in C along with their precedence and associatively.

[7M]

UNIT - II

- 3. (a) Develop a C program to read two matrices A and B and perform matrix multiplication on the given matrices. [7M]
 - (b) Sorting an Array of Integers into Ascending Order.

[7M]

4. (a) Write a C program that calculates the sum of the digits of an integer.

[7M]

(b) Write a C program to find Power of a Number (i.e. X^Y – where x and y are inputs) without using built in functions. [7M]

UNIT - III

5. (a) Using an example compare the declarations char a[] and char *a.

[5M]

- (b) Write a single program to demonstrate the Call By Value and Call By Reference functions by taking an example of swapping the values of two variables. [9M]
- 6. (a) List the four categories of functions and explain them briefly.

[8M]

(b) Write a C program to read a text and print the number of characters and words in it (Use pointers). [6M]

UNIT - IV

7. (a) Write short notes on enumerated data type in C.

[4M]

(b) Write a program in C to store and display the information of 10 students using structure. [10M]

8.	(a) Explain the usage of typedef with an example.	[6M]	
	(b) Differentiate between structure and union.	[8M]	
	$\mathbf{UNIT}-\mathbf{V}$		
9.	(a) Explain command line arguments with an example.	[5M]	
	(b) Write a C Program to Compare two text/data files.	[9M]	
10.	(a) Narrate the reasons for a file cannot be opened?	[6M]	
	(b) Write a C Program to Reverse the Contents of a File and Print it.	[8M]	