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Question Paper Code: CMB312



INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)

MBA II Semester End Examinations (Supplementary) - January, 2019

Regulation: IARE-R16

C Programming
(Master of Business Administration)

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

- (a) What is associativity of operators? Explain briefly left shift and right shift operators in C with a suitable example. [7M]

(b) Assume that the commission on a salesman's total sales is computed as follows: [7M]

 - If sales < 100, then there is no commission.
 - If $100 \leq \text{sales} \leq 500$, then commission = 10% of sales.
 - If sales > 500, then commission = 100 + 8% of sales above 500

Write a C program for the same.
- (a) Discuss the concept of variables and constants with a suitable example. [7M]

(b) A positive integer is called an Armstrong number of order n if $abcd = a^n + b^n + c^n + d^n$. [7M]

Write a program to print Armstrong numbers between two integers. [7M]

UNIT – II

- (a) Explain downward flow and upward flow methods for transferring data between calling and called function with suitable examples. [7M]

(b) Write a C program to swap two numbers using pointers. [7M]
- (a) What is scope of a variable? Explain block scope with a suitable example. [7M]

(b) Write a C Program to find sum of n natural numbers. [7M]

UNIT – III

- (a) Explain about string input and output functions. [7M]

(b) Explain briefly the following string handling functions: strcpy(), strcmp(), strcat(). [7M]
- (a) With a suitable example, demonstrate how to dereference a pointer to void. [7M]

(b) Explain the use of command line arguments. Illustrate how addition of two integers can be done using command line arguments. [7M]

UNIT – IV

7. (a) Define structure. Give an example. Identify few operations that can be performed on structures. [7M]
(b) Write a C program to read and display the details of employee like id, name, age and salary. [7M]
8. (a) Explain the difference between structures and unions. [7M]
(b) What is the use of enumeration type in C? Explain with an example. [7M]

UNIT – V

9. (a) Write a C program to count the number of characters in a text file. [7M]
(b) Explain briefly fprintf() and fscanf() with a suitable example. [7M]
10. (a) Discuss various file opening modes supported in C. [7M]
(b) Write a C program to read name and marks of n number of students from user and store them in a file. [7M]

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