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Question Paper Code: CMB312



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

MBA II Semester End Examinations (Regular/Supplementary) - May/June, 2018

Regulation: IARE-R16

C Programming

Time: 3 Hours

(MBA)

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) Identify the different symbols used in flowchart. Draw a flowchart to find the average of three input integer numbers. [7M]

(b) If a four digit number is input through the keyboard, write a C program to obtain the sum of the first and last digit of this number. [7M]
- (a) What is the difference between a break and continue statement? Explain with an example. [7M]

(b) Design an algorithm that accepts a positive integer and reverses the order of its digit. [7M]

UNIT – II

- (a) Explain recursion function used in C language with an example. [7M]

(b) Write a C program to find transpose of a matrix and display the output in matrix format. [7M]
- (a) Explain the different storage classes used in C programming language with examples. [7M]

(b) What will be the output of the following code snippet? Justify your answer. [7M]

```
main()
{
    static int c=5;
    printf("c=%d\n", c --);
    if ( c )
        main();
}
```

UNIT – III

- (a) Explain the difference between malloc and calloc functions. [7M]

(b) Write a C program to count vowels, consonants in a string which is entered by the user. [7M]
- (a) List out any four string handling functions with example. [7M]

(b) Write a C program to swap two number using call by reference. [7M]

UNIT – IV

7. (a) Mention the differences between structures and unions. [7M]
(b) Write a program to add 2 complex number using structures. [7M]
8. (a) What will be the output of the following code snippet? Justify your answer. [7M]
- i.

```
#include <stdio.h>
enum week { Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday};
int main()
{
    enum week today;
    today = Wednesday;
    printf("Day %d", today+1);
    return 0;
}
```
- ii.

```
#include<stdio.h>
int main()
{
    struct value
    {
        int bit1:1;
        int bit3:4;
        int bit4:4;
    }
    bit={1, 2, 13};
    printf("%d, %d, %d\n", bit.bit1, bit.bit3, bit.bit4); return 0;
}
```
- (b) Write a C program to add two distances entered by user. Measurement of distance should be in inch and feet. (Note: 12 inches = 1 foot) [7M]

UNIT – V

9. (a) Explain the following file I/O functions with example
i. fopen() ii. fread() iii. fwrite() iv. fclose() [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]
10. (a) Write a C program to copy contents from one file to another. [7M]
(b) What will be the output of the following code snippet? Justify your answer. [7M]
- ```
main()
{
 char ch = 'z';
 static char str[] = "Zebra",
 puts (ch, str);
 printf(stdprn, "%s",str);
 fwrite (str,5,1, stdprn);
 fputs(str,stdprn);
}
```