P2123

[5803]-103
First Year B.B.A. (C.A.)
CA-103 : C LANGUAGE
(CBCS 2019 Pattern) (Semester -I)

Time : 2½ Hours]   *[Max. Marks : 70*
Instructions to the candidates:
1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*
3) *Questions : Total Number of Questions are : 5*

Q1) Attempt any Eight of the following (Out of Ten)   **[8×2=16]**
   a) Define identifier.
   b) Explain continue statement.
   c) Define for loop.
   d) What is C character set?
   e) Define Associativity.
   f) Define if-else statement?
   g) Define printf()
   h) What do you mean by static variable?
   i) Define pointer in C.
   j) Give the syntax of malloc()

Q2) Attempt any four of the following (Out of Five)   **[4×4=16]**
   a) Differentiate between entry control and exit control loop.
   b) Define structure. Give suitable example.
   c) What is a 1-D Array? How to represent 1 D array in memory.
   d) Write an algorithm and draw flow chart to find minimum of two numbers.
   e) Write a program to find the sum of digits of a number using function.

Q3) Attempt any Four of the following (Out of Five).   **[4×4=16]**
   a) Define operator. List and explain any four categories of operators in C.
   b) What is string? Explain any four functions of string.
   c) Explain call by value and call by reference with example.
   d) Write a program to find the given number is armstrong or not.
   e) Write a C program to add two matrices.

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Q4) Attempt any Four of the following (Out of Five)   [4×4=16]
    a)   What is function? Explain types of function.

    b)   What is storage class? Explain types of storage classes.

    c)   Explain switch statement with example.

    d)   Write a program to print Fibonacci series up to n numbers.

    e)   Trace the output

        i)   int main()

```
{
    char str 1[]="Hello";
    chr str2[]="Hello";
if(str1= =str2)
printf("string are equal");
else
printf("string are not equal");
getch();
}
```

        ii)   int main()

```
{
float a[]={12.4,2.3,5.6,7.8};
printf("%d',sizeof(a)/sizeof(a[0]));
getch();
}
```

Q5) Write a short note on any two of the following (Out of Three)   [2×3=6]
    a)   strcat()

    b)   *Data type*

    c)   break statement

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