XV-106

Five Years M.Sc. (CA & IT) Integrated (K.S.)
2nd Sem. F.Y. M.Sc.
April-2013

ACP (Advanced 'C' Programming)

Time : 3 Hours]   **[Max. Marks : 100**

1. (A) Explain any **three** :   **15**

    (1) Explain string Handling function with example.

    (2) List all category of function and explain any two with example.

    (3) Write a function if number is prime then return I else return zero.

    (4) Write a program to delete all the vowels from the string.

  (B) Attempt any **five** :   **5**

    (1) Specify the output
        printf ("%d", strcmp ("push", "pop"));

    (2) What is static variable ?

    (3) Functions returns _____ value of default.

    (4) To use the function atol in a program we must include the Header file _____.

    (5) What will be the output of the following :
        X = 'A' – 5;

    (6) Specify the output.
    char name [25] = "ksschool of business";
        printf ("%-20.8s", name);

2. (A) Explain any **three** :   **18**

    (1) Explain the concept of structure with code.

    (2) Explain structures within structures.

    (3) Define a structure that can describe a Hotel. It should have members that include the name, address, grade, average charge and number of rooms.
    Write functions to perform the following :
    *) To print hotels with room charges less than a given value.

    (4) Define Arrays of structures.

  (B) Give the difference between structure and union with code.   **2**

3. Attempt any **five** :   **20**

  (1) Write a function using pointer to concate two string.

  (2) Define pointer. Explain how Integer array is assign to the pointer.

(3) Give the difference between call by value and call by reference with example.

(4) What is the value of the following :
int X=10, Y=10; int *P1=&*x*, %P2 = & y;
(a) (%P1)++
(b) - - (%P2)
(c) %P1 + (%P2) - -
(d) ++ (%P2) – % P1

(5) Give the output of the following :
int a=12, b=4; int %P1, %P2;
P1 = &a;
P2 = &b;
X = % P1 & %P2 –6;
Y = 4% – %P2/%P1 + 10;
%P2 = %P2 + 3;
%P1 = %P2 – 5;
   What is the value of a, b, P1, P2.

(6) Write a program to find maximum number from the two number using pointer.

4. (A) Explain any **three** : **18**
   (1) Explain getw( ) and putw( ) function with example.
   (2) Explain ftell( ) and fseek( ) function with example.
   (3) Write a program to read the Data from the files then write all the 'odd' number to a file "odd.txt" and write all even number to a file "even.txt".
   (4) Write a program that append the data to the file test.txt using command line argument.

   (B) Define argC and argV. **2**

5. (A) Explain any **one** : **6**
   (1) Write a program to create and display link list.
   (2) Explain implementation of link list.

   (B) Define the following : **14**
   (1) What is Dynamic memory allocation.
   (2) Define Malloc.
   (3) Give the difference between Array & Structure.
   (4) List out different link list.
   (5) Explain free( ) and realloc( ) function.
   (6) What is Stack and Heap.
   (7) Give the idea how new node is insert in the singly link list.

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