AC-2967
First Year B.Sc. (Computer Science) (Sem. II)
Examination
March/April - 2015
Paper - 2 : Programming Language C - II

Time : 2 Hours]  [Total Marks : 50
Instructions :
(1)

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1 Answer the following questions :

(i) Differentiate Structure and Union.

(ii) Define term: Sorting.

(iii) What is file pointer?

(iv) List out functions for random accessing files.

(v) What is difference between *p+1 and *(p+1), where p is integer pointer?

(vi) What is call by reference?

(vii) Give output if any:

```c
void main( )
{
    int a[ ]={1,2,3,4,5};
    int i;
    for(i=0;i<5,i++)
    {
        printf("%d", *a);
        a++;
    }
}
```

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AC-2967] 1 [Contd...
2 (a) Define and discuss the algorithm of sequential search.
(b) Explain array of character pointers with example.

OR
(a) Explain pointer to array with example.
(b) Define and discuss the algorithm of binary search.

3 (a) Explain with example: How to create structure and how to access elements of structures?
(b) What are the file opening modes in 'C'? Explain it with example.

OR
(a) What is file in 'C' language? What are different methods/ways to access data stored in files? What mechanism is provided in 'C' to access these data stored in file?
(b) What are the macro preprocessors in C? Explain them with example.

4 Write notes on: (any two)
(i) Write a program to implement Bubble sort using any 5 different elements in number
(ii) Write a program to implement Insertion sort.
(iii) Union in C.