



**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)

<p>नीचे दर्शायेव निशानीवाणी विगतो उत्तरवही पर अवश्य लपनी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : <b>FIRST YEAR B.Sc. (COMPUTER SCIENCE) (SEM. 2)</b></p> <p>Name of the Subject : <b>PAPER - 2 : PROGRAMMING LANGUAGE C - 2</b></p> <p>Subject Code No. : <b>2</b> <b>9</b> <b>6</b> <b>7</b> Section No. (1, 2,.....): <b>Nil</b></p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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1 Answer the following questions : 14

- (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:

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

- 2 (a) Define and discuss the algorithm of sequential search. 6  
(b) Explain array of character pointers with example. 6
- OR**
- (a) Explain pointer to array with example. 6  
(b) Define and discuss the algorithm of binary search. 6
- 3 (a) Explain with example: How to create structure and how to access elements of structures? 6  
(b) What are the file opening modes in 'C'? Explain it with example. 6
- 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? 6  
(b) What are the macro preprocessors in C? Explain them with example. 6
- 4 Write notes on : (any two) 12  
(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.
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