

(4)
OR

7. (a) Calculate frequency of characters in stream of data. (Using C language). 7½
- (b) Print Name on No. of all employees who have 5 year or more experience and salary less than 20,000, using array of structure. 7½

Unit-IV

8. (a) What are bit wise operator? Define any five bit-wise operator with example. 5
- (b) Write a C program which read two inter numbers from keyboard and perform multiplication on them using bit wise operator. 5
- (c) Create a file to store text and display the content. 5

OR

9. (a) Read a text file and create another file in which multiple blanks are replaced by single one. 5
- (b) Find sum and average of n integers using command line argument. 5
- (c) Create a file which stores students records. 5

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Roll No. _____

SFS-4698

B.C.A. (Semester-II) Examination, 2015

'C' Programming

First Paper

(BCA-106T)

Time Allowed : Three Hours] [Maximum Marks :100

Note : Answer five questions in all. Question No. 1 is compulsory. Attempt one question from each unit.

1. Answer the following in brief : 4×10
- (a) What is array? Write statements for reading and writing two Dimensional array.
- (b) What is Sorting? Briefly describe bubble sort.
- (c) Describe pointer? How a value is accessed by using pointer? Give example.
- (d) Define void pointer with the help of appropriate example illustrate the use of void pointer.
- (e) What is the significance of dynamic

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memory allocation? Define Malloc (), Calloc (), free () and realloc ().

- (f) Define Nested Structure. Read student's record using structure.
- (g) Illustrate passing of union as function argument.
- (h) Describe briefly unformatted Input, output functions.
- (i) Describe preprocessor directives with help of appropriate example.
- (j) Find output of following :

```
main ( )
{ int a =15, b=10, c, d;
  c = ++a-b;
  d = b++ + a;
  printf ("a=%d b=%d d=%d\n",a, b, d);
  printf ("a%b=%d\n", a %b);
  printf ("a*=b=%d\n", a*=b);
  printf ("%d\n", (c>d)? 1:0);
}
```

Unit-I

- 2. (a) Write a programme to find out largest and smallest no. of an array. 7½
- (b) Find sum of all elements of a matrix using function. 7½

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OR

- 3. (a) Multiply two matrices and point the result using function. 7½
- (b) By using selection sort, sort an array given by user. 7½

Unit-II

- 4. (a) Write a programme to illustrate Dynamic memory allocation for one dimensional array. 7½
- (b) Reverse an array by using pointer. 7½

OR

- 5. (a) Write a programme to perform bubble sort by using function Returning pointer. 10
- (b) Explain the effects of following : 5
 - (i) int a, *b = &a;
 - (ii) int p, *p;
 - (iii) char * s;
 - (iv) a= (float *) & x;
 - (v) double (*f) ();

Unit-III

- 6. (a) Calculate area of circle, triangle or Rectangle depending on users choice using structure. 7½
- (b) Concatenate two strings without using Library function strcat (). 7½

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P.T.O.