



**A-3705**

**First Year B.C.A. (Sem. I) (CBCS) Examination  
March / April - 2015**

**Paper-104 : Computer Programming &  
Programming Methodology  
(New Course)**

Time : 3 Hours]

[Total Marks : 70

**Instruction :**

नीचे दशांशक निशानोंवाणी विगतो उत्तरवही पर अवश्य कर्जवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	
<b>FIRST YEAR B.C.A. (SEM. I) (CBCS)</b>	
Name of the Subject :	
<b>Paper-104 : Comp. Program. &amp; Program. Method. (New)</b>	
Subject Code No. <b>3 7 0 5</b> Section No. (1, 2,.....) : <b>Nil</b>	Student's Signature

1 Answer the followings in short (any seven) 14

- (1) What is difference between variable and constant?
- (2) What is type casting?
- (3) If  $a = 5$ , then determine the value of  $m$  and  $a$  for the following expression

$$m = ++ a * 5;$$

- (4) State the output produce by the following printf statements `printf ("%d \t %4.2f, 1234, 456);`
- (5) How can we use `putchar( )` functions to output multi character strings?
- (6) What is difference between `break` and `continue`?
- (7) Which of the following cannot be checked in switch case statement? (i) character (ii) integer (iii) float (iv) enum.

- (8) What is infinite loop? Give example.
- (9) What is debugging?
- (10) What do you mean by relational expression?  
Give example.
- 2 (A) What is flowchart? Explain it in detail. Also explain benefits and limitations of drawing flowchart. 6
- (B) Explain structured programming with example. 6

OR

- (B) Explain different types of errors.
- 3 Attempt any two. 14
- (A) Explain switch... case with example. Also explain use of default and break in switch... case statement.
- (B) What is the difference between entry control loop and exit control loop? Explain exit control loop in detail with example.
- (C) Explain one dimensional array in detail.
- 4 (A) Explain string functions in detail. 6
- (B) Write a short note on data type available in C. 6

OR

- (B) Write a short note on operators of C.

5 Do as directed.

(A) Write an algorithm to check whether given number is even or odd. 6

(B) Write a program in C to accept a string and check whether the given string is palindrome or not. 6

OR

(B) Write a program in C to sort an array in descending order.

(C) Find out errors (if any), otherwise write output of the following code : 6

(i) void main( )

```
{  
    int m=1;  
    if (m = = 1)  
    {  
        printf("Delhi");  
        if (m = = 2)  
        {  
            printf("Chennai" );  
        }  
        else  
            printf("Bangalore");  
    }  
    else ;  
    printf("End");  
}
```

(ii) `char s1 [ ] = "New Delhi";`

`char s2[ ] = "Bangalore"`

`strcpy(s1,s2,3);`

`printf("%s", s1);`

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