A-3705
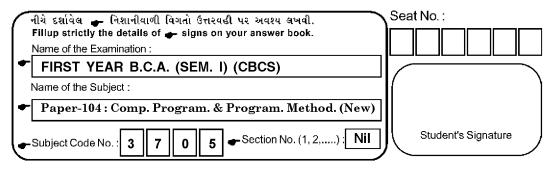
First Year B.C.A. (Sem. I) (CBCS) Examination
March / April – 2015
Paper-104 : Computer Programming &
Programming Methodology
(New Course)

Time : 3 Hours]   [Total Marks : 70

Instruction :

નીચે દર્શાવેલ ☞ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☞ signs on your answer book.

Name of the Examination :

☞ **FIRST YEAR B.C.A. (SEM. I) (CBCS)**

Name of the Subject :

☞ **Paper-104 : Comp. Program. & Program. Method. (New)**

☞ Subject Code No. : | 3 | 7 | 0 | 5 | ☞ Section No. (1, 2,.....) : **Nil**

Seat No. :

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   **6**
        benefits and limitations of drawing flowchart.

   (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   **6**
       even or odd.

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

                           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   **6**
       following code :

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

(ii)   char sl [ ] ="New Delhi";

char s2[ ] = "Bangalore"

strncpy(s1,s2,3);

printf("%s", sl);

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