P-3704

First Year B. C. A. (Sem. I) (CBCS) Examination
March/April – 2014
104 : Computer Programming & Programming Methodology

Time : 3 Hours]   [Total Marks : 70

Instructions :

(1)

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

Name of the Examination :

☜ | **F. Y. B. C. A. (SEM. 1) (CBCS)**

Name of the Subject :

☜ | **104 : COMP. PROG. & PROG. METHODOLOGY**

☜ Subject Code No. : | **3** | **7** | **0** | **4** | ☜ Section No. (1, 2,.....) | **Nil**

Seat No. :

Student's Signature

(2)   All questions are compulsory.
(3)   Figure to the right indicate full marks.
(4)   Mention your options clearly.

1   Answer in short : (any ten)   **10**
　　(i)　What is computer program?
　　(ii)　What is keyword? List any five keywords of QBASIC.
　　(iii)　What is the function of LET statement?
　　(iv)　How, and ; differs from each other in PRINT?
　　(v)　Explain INT( ) function.
　　(vi)　What is Interpreter?
　　(vii)　What are the benefits of drawing flowchart?
　　(viii)　What are the major categories of numeric constant in BASIC ?
　　(ix)　What is an infinite loop? Give example.
　　(x)　What is the purpose of REDIM statement in BASIC?
　　(xi)　Why array is used?
　　(xii)　What is syntax error?
　　(xiii)　Explain restore statement.

2   Explain following questions in detail : (any three)   **15**
　　(a)　Explain different level of programming language.
　　(b)　Explain different data type available in QBASIC.
　　(c)　Explain operators available in QBASIC.
　　(d)　Explain READ.....DATA and RESTORE.
　　(e)　Differentiate between forward jumping and backward jumping.

P-3704]   1   [Contd...

3   Answer the following questions : (any three)   **15**
   (a) Write a short note on PRINT USING.
   (b) What is nested loop? Give proper example.
   (c) Explain conditional Statement in detail.
   (d) Explain mathematical functions in detail.
   (e) What do you mean by single scripted variable? Explain in detail.

4   (a) What is Searching? Explain Sequential Search method with an Example.   **6**

<div align="center">**OR**</div>

   (a) Write a short note on Debugging.   **6**
   (b) Explain exit Control Loop Detail.   **6**
   (c) Write an algorithm and draw flowchart to find the factorial of the given number.   **6**

<div align="center">**OR**</div>

   (c) Write the algorithm and draw flowchart to check whether a number is Armstrong number or not.   **6**

5   (a) State the output of following :   **4**
       (i)   A$="VNSGU"
             Print mid$(a$,4)
       (ii) N=1234
             Print len(str$(N))
       (iii) S$="CPPM"
             Print Left$(S$,2.5)
       (iv) Dim b(2)
             b(1)= 10
             b(2) = 5
             Print b(10/5)+b(5/5)+5
   (b) Write the basic notation for the following :   **4**
       (i) $X+Y/Z-L(A-B)D^2$
       (ii) $Y=4AB+C^2/(B+C)^2$
   (c) Differentiate between the following : (any two)   **4**
       (i)   IF and Select..........Case
       (ii) Variable and Constant
       (iii) Logical V/s Relational expression.