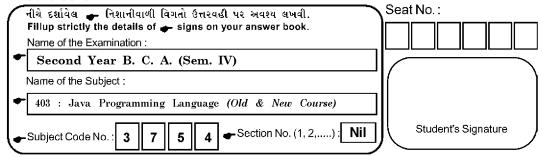## DMM-3754

Second Year B. C. A. (Sem. IV) Examination
March / April – 2016
403 : Java Programming Language
(Old & 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 :

☛ **Second Year B. C. A. (Sem. IV)**

Name of the Subject :

☛ 403 : Java Programming Language *(Old & New Course)*

☛ Subject Code No.: | 3 | 7 | 5 | 4 | ☛ Section No. (1, 2,.....) : **Nil**

Seat No. :

Student's Signature

1   Answer the following in short : (Any **Seven**)   14

   (1)   What do you mean by immutable object ? Explain with example.

   (2)   Java is robust – justify.

   (3)   Define monitor.

   (4)   What is JVM ?

   (5)   What is difference between applet and application ?

   (6)   Explain Value of ( ) function.

   (7)   Write down the use of CLASSPATH.

   (8)   Is it possible to create object of interface ? If yes then how ?

2   (A)   What is package? Explain access specifiers with java   7
           package.
                              OR
           What is inheritance? Explain the use of super key
           word in inheritance.

     (B)   Compare the features of JAVA and C++.   7
                              OR
           Explain the life cycle of thread.

DMM-3754]   1   [Contd....

3   Answer the following in detail : (Any **two**)   14

    (A) Exception handling in java.

    (B) Use of Static and Final Keywords.

    (C) Java interpreter.

4   (A) What is applet ? How to pass parameters to the applet ?   7
        Explain with example.

                        OR

        How to achieve runtime polymorphism in java ? Explain
        with example.

    (B) Write a program that will accept a string from command   6
        line and arrange all the characters in alphabetical order
        e.g Input-computer output-cemoprtu.

5   Write a note on following : (Any **three**)   15

    (A) Thread synchronization

    (B) Constructors of Sting class

    (C) Bitwise operators

    (D) Abstract class.

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