DMM-3754
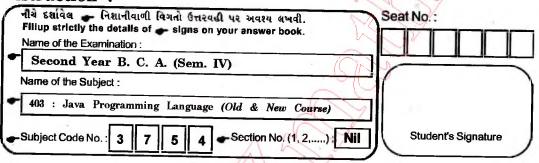## Second Year B. C. A. (Sem. IV) Examination
March / April – 2016
403 : Java Programming Language
(Old & New Course)

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 package.   **7**

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.

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OR

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       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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