



RD-3754

Second Year B. C. A. (Sem. IV) Examination
March / April - 2017

403 : Java Programming Language

[Total Marks : 70]

Time : 3 Hours]

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. 4)

Name of the Subject :
403 : JAVA PROGRAMMING LANGUAGE

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

Seat No. :

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Student's Signature

1 Answer the following in short : (any seven) 14

- What is bytecode ?
- How mutex can be achieved in thread ?
- Explain the keyword equivalent to go to statement in java.
- Differentiate >> and >>>.
- How default access modifier is different than public modifier ?
- Write down the significance of CLASSPATH.
- Write down the use of volatile keyword.
- Differentiate checked and unchecked exception.

2 Write short notes on following : (any four) 16

- Bitwise operator
- Narrowing conversion
- Garbage collection
- Arrays in java
- Static keyword

- 3 (a) What is package ? How can we create sub package and import it into another package ? 7

OR

- (a) Explain thread life cycle in detail. 7
(b) Explain method overriding with example. How does it differ from overloading ? 7

- 4 (a) Compare interface with class and abstract class. 6

OR

- (a) Compare features of java and C++. 6
(b) What is an applet ? List out various methods of graphics class used with applet. 7

- 5 (a) Write a program that will accept two strings or two numbers from command line and create overloaded method that add these two numbers or concatenate two strings. 6

OR

- (a) Write a program that will create a thread to display numbers between given two numbers passed as an agreement. 6
(b) Explain the concept of deadlock in java. 7

OR

- (b) What is exception ? Explain user defined exception with appropriate example. 7