



RD-3754

Second Year B. C. A. (Sem. IV) Examination

March / April - 2017

403 : Java Programming Language

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.		Seat No. :	
Name of the Examination :		<input type="text"/>	
<input type="text" value="SECOND YEAR B. C. A. (SEM. 4)"/>		<input type="text"/>	
Name of the Subject :		<input type="text"/>	
<input type="text" value="403 : JAVA PROGRAMMING LANGUAGE"/>		<input type="text"/>	
Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="5"/> <input type="text" value="4"/>		Section No. (1, 2,...): <input type="text" value="NIL"/>	
		<div style="border: 1px solid black; border-radius: 15px; height: 80px; display: flex; align-items: center; justify-content: center;">Student's Signature</div>	

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

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

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

- (a) Bitwise operator
- (b) Narrowing conversion
- (c) Garbage collection
- (d) Arrays in java
- (e) 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
