



# RAN-3557

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

### March / April - 2019

### 403: JAVA Programming Language

Time: 3 Hours ]

[ Total Marks: 70

સૂચના : / Instructions

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fill up 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

Subject Code No.:

3

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5

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Seat No.:

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Student's Signature

Q:1 Answer in brief(Any 7)

14

1. What is JVM and Bytecode?
2. Differentiate init() and start() methods of Applet.
3. Explain Checked and Unchecked Exceptions.
4. How to create reference object of interface?
5. Define Monitor.
6. How do we compare two objects in java?
7. Differentiate paint() and repaint().
8. How access modifier default is different than public modifier?

Q:2 Write a short note on following(Any 2)

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1. Thread Lifecycle
2. Interface
3. Super keyword

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[ 1 ]

[ P.T.O. ]

**Q:3 [A]** Explain various methods of StringBuffer class. **7**

**OR**

**[A]** Explain Concept of Deadlock in detail **7**

**[B]** Explain Structure of JVM **7**

**OR**

**[B]** Explain Method overloading and overriding in detail **7**

**Q:4 [A]** Write a program that accept a number from command line and check whether it is palindrome or not. **7**

**OR**

**[A]** Write a program that accept a number from command line and display individual digits on the interval of 10 seconds. **7**

**[B]** What is Applet? Explain the Graphics methods of Applet. **7**

**OR**

**[B]** What is Exception? Explain user defined exception with example. **7**

**Q:5 [A]** What is package? Explain with example to create and use it in another file. **7**

**OR**

**[A]** Explain Static method, Static variable and block in detail with example. **7**

**[B]** Explain Bitwise operators in detail. **7**

**OR**

**[B]** Explain array of objects in detail with suitable example. **7**

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