

RAN-2411001003022001

B.Sc. Computer Science (Sem.-III) Examination March - 2026
Major - 2 - CS - MJ2 - 304 - JAVA Programming-I (TH)

Time: 1 Hour]**[Total Marks: 25**

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book	Seat No.: <table border="1" style="width: 100%; height: 30px; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table> Student's Signature						

- Q-1. Answer the following. 08**
- A) Answer any four. (MCQs) 04**
- 1) Which of the following is not a feature of Java?
 - a) Platform Independent
 - b) Object-Oriented
 - c) Supports Multiple Inheritance through classes
 - d) Automatic Garbage Collection
 - 2) Which among the following is responsible for executing bytecode in Java?
 - a) JDK b) JVM c) JIT d) JRE
 - 3) Which method is used to compare two strings in Java?
 - a) equals() b) compare() c) compareTo() d) Both a and c
 - 4) Which keyword in Java is used to prevent a method from being overridden?
 - a) super b) final c) static d) abstract
 - 5) Which method starts the execution of a thread in Java?
 - a) run() b) start() c) execute() d) init()
- B) Answer any four. (objective type questions) 04**
- 1) What is a daemon thread in Java?
 - 2) Which class is the parent of all applets in Java?
 - 3) Which class is used to create mutable strings in Java?
 - 4) What is the use of the final keyword in Java?
 - 5) Which keyword is used to declare an interface in Java?
 - 6) What does JVM stand for?

Q-2. Answer the following :- 12

A) What is the life cycle of a Thread? Explain with a neat diagram. 07

OR

A) Explain the life cycle of an Applet with a diagram.

B) Differentiate between String and StringBuffer classes in Java with examples. 05

Q-3. Answer the following any one. 05

A) What is Polymorphism in Java? Explain overloading and overriding.

B) Explain the concept of Abstract class and Interface with examples.

C) What is java User Define Package? Explain advantages and show how it is created.
