



RAN-2111000606010001

B.Sc. (IT) (Sem. VI) Examination March - 2026

Java (Old) (Paper - 601)

[Total Marks: 70

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book. (2) Draw the Figure and give example wherever necessary.	Seat No.: <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> Student's Signature						

Q. 1. Answer the Following: (14)

1. "Java is platform independent". Justify
2. What is 'super' and 'this' keywords?
3. What is an event? State any four event classes.
4. Why is main method declared as public and static?
5. "A interface can implement one or more classes in Java". True/False?
Justify your answer.
6. What is explicit type casting and implicit type casting? Give an example for each.
7. What are Java Platforms? Explain briefly.

Q. 2. Do as instructed (14)

1. Write a note on features of Java. (5)
2. Show nested try-catch with the help of an example. Explain how can you create a custom exception? (5)
3. Explain abstract class with an example. Also explain when do you create them. (4)

OR

Explain Collection Framework in Java.

Q. 3. Do as Directed. (14)

1. What is thread in Java? What are the different ways to create Thread in Java? (5)
2. Differentiate List, Set and Map. Give an example for an Hashtable. (5)
3. Explain Object class in detail. Also state the function of Object class that cannot be overridden. (4)

OR

Explain 10 streams in java.

Q. 4. Do as Directed: (14)

1. Write a detailed note on different type of JDBC Drivers. (5)
2. What is synchronization in java? Explain with an example. (5)
3. What do you understand by Transaction Management? How is it achieved in java? (4)

OR

What is ResultSet? Explain the various ResultSet Methods.

- Q. 5. Do as Directed (14)**
1. Write a program to accept user detail from user and insert it in table using JDBC Java API. (5)
 2. Explain Events and Listeners in swing. (5)
 3. What do you set layout manager as if you do not want any layout? Write a snippet of code to display a message box to client as “Data has been inserted!!” (4)

OR

How will you create a textbox in Swing with font type as “Time New Roman”, size 34 and is in bold style? Give an example.
