



RAN - 2111000606010001

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B. Sc. (IT) (Sem. - VI) Examination March - 2025

Java

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:
☛ **B. Sc. (IT) (Sem. - VI)**

Name of the Subject :
☛ **Java**

Subject Code No.: **2111000606010001**

Seat No.:

Student's Signature

(2) Draw the Figure and give example wherever necessary.

Q. 1. Answer the Following:

14

1. What are Generic Types ?
2. Write note on is final finally and finalize in Java?
3. What is an event? State any four event classes.
4. Show as in how many ways you can create threads?
5. Explain the significance of JIT compiler in JVM.
6. What is explicit type casting and implicit type casting? Give an example for each.
7. What are the different types of layout managers?

Q. 2. Do as instructed:

14

1. Show with example, the usage of Object Input and Output streams in light of object serialization **5**
2. Differentiate between C++ and Java. **5**
3. Design and use abstract classes, interface and other classes for various geometrical shapes like circle or rectangle. **4**

OR

Explain HashSet, TreeSet, HashMap and TreeMap classes in Java.

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[P.T.O.]

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- Q. 3. Do as Directed:** **14**
1. Demonstrate inter thread communication with example 5
 2. What are wrapper classes? Explain with an example. 5
 3. Explain Object class in detail. Also state the function of Object class that cannot be overridden. 4

OR

List and Explain various IO Streams and Readers 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. Justify Transaction Management with example in JDBC? 4

OR

Explain PreparedStatement and CallableStatement with example?

- Q. 5. Do as Directed:** **14**
1. Justify the use of annotations and its types in Java programs 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. 4

OR

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