



RAN-2511001106010001

B.Sc. (IT) (NEP) (Sem. VI) Examination March - 2026
Java (Paper - 601)

[Total Marks: 50

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
 Fill up strictly the above details on your answer book.

Seat No.:

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Student's Signature

Q. 1.[A] Answer the following questions. [Any Five]

[5]

- (1) What are Generic Types ?
- (2) What is a byte code?
- (3) How can you call the super classes constructor in java?
- (4) Is multiple inheritance possible in java? If so, how?
- (5) Which method of object class cannot be overridden? Why?
- (6) What is implicit and explicit type casting?

Q. 1.[B] Answer the following questions. [Any Five]

[5]

- (1) What is an event? State any four event classes.
- (2) Can 'public' in main() method be replaced to 'private'? What will happen if we do that?
- (3) Why is java called as 100% OOP?
- (4) What does transient keyword do?
- (5) What does interrupt () and invoke() do?
- (6) What are the different types of annotation?

Q. 2.[A] Answer the following questions in detail [Any Two]

[10]

- (1) What do you understand by Transaction Management? How is it achieved in java?
- (2) Write a detailed note on Object class.
- (3) Compare and contrast between Map, Set and List based on different features.

Q. 2.[B] Answer the following questions in detail [Any Two]

[6]

- (1) Differentiate between static and final keyword with examples.
- (2) What is deserialization? Explain with an example.
- (3) Write a note on JFC.

Q. 3.[A] Answer the following questions in detail [Any Two]

[10]

- (1) Write a note on Connection interface in Java. Write a snippet of code to establish connection to mysql server "student" database.
- (2) How can you create a custom runtime exception? Explain with an example.
- (3) Explain event handling with an example.

- Q. 3.[B] Answer the following questions in brief [Any Two] [6]**
- (1) What is a prepared statement? Explain with an example.
 - (2) What do you understand by deadlock? Explain in terms of threads.
 - (3) What are the different types of statements in JDBC? How do you create it?
- Q. 4.[A] Write a note on Random Access file in java with example. [5]**
- Q. 4.[B] How garbage collection works in java? [3]**
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