

B.Sc.(IT) Semester - 4 (CBCS) Examination
March/April-2023 [NEW COURSE]
Programming with JAVA(Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Q.1(A) Answer the following questions. (03)

1. Full form of JRE is _____.
2. ____ data type stores logical value i.e. true or false.
3. In Java ____ provides automatic memory management.

Q.1(B) Answer the following questions. (Any Two) (06)

1. What is an Array? Explain types of Array in Java.
2. Explain class and constructor.
3. Explain JDK, JVM and JRE.
4. Explain: Looping statement in Java.

Q.1(C) Answer the following questions. (Any One) (05)

1. Write short note on primitive data type.
2. Explain Encapsulation and inheritance in Java.

Q.2(A) Answer the following questions. (03)

1. ____ keyword is used to access member of super class.
2. Declaring variable as _____, it makes constant.
3. _____ class is declared inside the class or interface.

Q.2(B) Answer the following questions. (Any Two) (06)

1. Explain Abstract and final class.
2. Explain Method overriding.
3. Explain interface.
4. Explain: Access Specifier.

Q.2(C) Answer the following questions. (Any One) (05)

1. Write short note on inheritance.
2. Explain java.util package.

Q.3(A) Answer the following questions. (03)

1. ____ is a block. The statements written in this block are executed mandatorily whether the exception is caught or not.
2. State the difference between character stream class and byte stream class.
3. _____ class is used to write characters in a file.

- Q.3(B) Answer the following questions. (Any Two) (06)**
1. What is thread? Explain its life cycle.
 2. Explain file and random access file.
 3. Explain daemon and non daemon thread.
 4. Explain: Stream and its types.
- Q.3(C) Answer the following questions. (Any One) (05)**
1. Explain with example `dataInputStream` and `dataOutputStream`.
 2. Write short note on exception handling with example.
- Q.4(A) Answer the following questions. (03)**
1. _____ is the first method called by an applet.
 2. List out five componenets of border layout.
 3. _____ method is called when you minimize the applet window or leave the applet page and go to another page in the browser.
- Q.4(B) Answer the following questions. (Any Two) (06)**
1. Explain box, spring and group layout.
 2. Explain how to implement Applet with parameter.
 3. Explain Graphics class.
 4. Explain: GridBag Layout and No Layout.
- Q.4(C) Answer the following questions. (Any One) (05)**
1. Write short note on Applet Life cycle.
 2. Explain border layout and card layout with example.
- Q.5(A) Answer the following questions. (03)**
1. List out types of key events.
 2. _____ classes provide *the default implementation of listener* interfaces.
 3. The _____ class is used to create a multi line text input.
- Q.5(B) Answer the following questions. (Any Two) (06)**
1. Explain JMenubar, JMenu, JMenuItem with example.
 2. Explain mouse events.
 3. State difference between Swing and AWT
 4. Explain: JFrame, JTextPane and JPanel.
- Q.5(C) Answer the following questions. (Any One) (05)**
1. Explain Event Listener Interface.
 2. Explain keyAdaptor and MouseAdaptor class.
