

OSHWAL EDUCATION TRUST MANAGED  
**SMT. C. Z. M. GOSRANI BCA COLLEGE - JAMNAGAR**  
**BCA SEM - 4 - PRELIM EXAM – APRIL 2022**

**SUBJECT: CS - 19: PROGRAMMING WITH JAVA**

**MARKS: 70**

<b>Q. 1 A</b>	<b>Attempt the following</b>	<b>4 Marks</b>
1)	Full form of JVM, JDK, JRE, J2SE	
2)	Give the name of two JAVA IDEs	
3)	Who invented Java?	
4)	Java is POP language , (True/False)	
<b>Q. 1 B</b>	<b>Answer in brief (Any 1 out of 2)</b>	<b>2 Marks</b>
1)	Explain ternary operator in java.	
2)	Explain abstraction and encapsulation.	
<b>Q. 1 C</b>	<b>Answer in detail (Any 1 out of 2)</b>	<b>3 Marks</b>
1)	Explain jagged array.	
2)	Explain features of java.	
<b>Q. 1 D</b>	<b>Write a note on (Any 1 out of 2)</b>	<b>5 Marks</b>
1)	Explain data-types in java.	
2)	Explain constructors and IIB in java.	
<b>Q. 2 A</b>	<b>Attempt the following</b>	<b>4 Marks</b>
1)	Which class is Universal Class in Java?	
2)	Which package is the default package in Java?	
3)	List out access specifiers of java.	
4)	What is a nested class?	
<b>Q. 2 B</b>	<b>Answer in brief (Any 1 out of 2)</b>	<b>2 Marks</b>
1)	What is method overriding?	
2)	Explain any four methods of Math class.	
<b>Q. 2 C</b>	<b>Answer in detail (Any 1 out of 2)</b>	<b>3 Marks</b>
1)	Explain final and abstract keywords with examples.	
2)	Explain wrapper classes with examples.	
<b>Q. 2 D</b>	<b>Write a note on (Any 1 out of 2)</b>	<b>5 Marks</b>
1)	Explain types of inheritance with examples. Explain interface with example	
2)	How to create the package in java? Give an example.	
<b>Q. 3 A</b>	<b>Attempt the following</b>	<b>4 Marks</b>
1)	What is the thread?	
2)	What is I/O stream?	
3)	What is the use of finally block?	
4)	List out types of streams in java.	
<b>Q. 3 B</b>	<b>Answer in brief (Any 1 out of 2)</b>	<b>2 Marks</b>
1)	Explain throws keyword.	
2)	Explain File class with example.	
<b>Q. 3 C</b>	<b>Answer in detail (Any 1 out of 2)</b>	<b>3 Marks</b>
1)	Show the two ways to create threads in java with examples.	
2)	Explain FileReader, FileWriter and BufferedReader class.	
<b>Q. 3 D</b>	<b>Write a note on (Any 1 out of 2)</b>	<b>5 Marks</b>
1)	Explain thread lifecycle in java.	
2)	Explain exception handling in java.	
<b>Q. 4 A</b>	<b>Attempt the following</b>	<b>4 Marks</b>
1)	Which method of graphics class is used to draw a circle in an applet?	
2)	Which are two methods executed only one time in applet Lifecycle?	
3)	Which method is used Graphics class object as an argument in applet?	
4)	How many parameters do we need to pass in the g.drawString() method?	

<b>Q. 4 B</b>	<b>Answer in brief (Any 1 out of 2)</b>	<b>2 Marks</b>
1)	Explain the applet tag.	
2)	List out layout type.	
<b>Q. 4 C</b>	<b>Answer in detail (Any 1 out of 2)</b>	<b>3 Marks</b>
1)	Explain Applet lifecycle.	
2)	Explain the Border layout.	
<b>Q. 4 D</b>	<b>Write a note on (Any 1 out of 2)</b>	<b>5 Marks</b>
1)	Write a code to draw login-form in applet.	
2)	Write a code to draw a smile face on screen.	
<b>Q. 5 A</b>	<b>Attempt the following</b>	<b>4 Marks</b>
1)	Full form of JFC, AWT.	
2)	Which package is needed to use swing components?	
3)	Which package is needed to use awt components?	
4)	List out MouseMotionListener Eventhandler.	
<b>Q. 5 B</b>	<b>Answer in brief (Any 1 out of 2)</b>	<b>2 Marks</b>
1)	Explain JTextField.	
2)	Explain JCheckBox.	
<b>Q. 5 C</b>	<b>Answer in detail (Any 1 out of 2)</b>	<b>3 Marks</b>
1)	Difference between AWT and Swing.	
2)	Explain JFrame with example.	
<b>Q. 5 D</b>	<b>Write a note on (Any 1 out of 2)</b>	<b>5 Marks</b>
1)	Explain Event Delegation model.	
2)	Explain Event Class.	