**Section 4**

**The correct answer is in bold format.**

1. **What is the role of the Java compiler (javac) in running a Java program?**a) It directly executes Java code.  
   b) **It converts Java source code into byte code in the form of a .class file.**  
   c) It displays the output on the screen.
2. **How do you execute a compiled Java program using the Command Prompt?**  
   a) Type javac followed by the class name.  
   b) **Type java followed by the class name (without the .class extension).**  
   c) Run the .class file directly by double-clicking it.
3. **What is the correct syntax to print "Hello World" in JShell?**  
   a) **System.out.print("Hello World")**  
   b) print("Hello World")  
   c) System.print("Hello World")
4. **What happens if you use single quotation marks (' ') instead of double quotation marks (" ") around a string in JShell?**  
   a) The code runs without issues.  
   b) **An error occurs, indicating an unclosed character literal.**  
   c) The string is printed as a character.
5. **What does the prompt "..." followed by ">" mean in JShell?**a) JShell has completed running the code.  
   b) An error occurred and JShell is waiting for correction.  
   c) **JShell is ready for another line of code to be added.**
6. **What does it mean to declare a variable in Java?**  
   a) Assigning an initial value to a variable.  
   b) **Creating a variable with a data type but not assigning a value.**  
   c) Using a variable in a print statement.
7. **Which data type should be used to store a single character in Java?**  
   a) String  
   b) **char**  
   c) boolean
8. **What is the range of the byte data type in Java?**  
   a) 0 to 255  
   b) **-128 to 127**  
   c) -32,768 to 32,767
9. **What is the result type when adding two byte values in Java?**  
   a) **int**  
   b) byte  
   c) short
10. **What type of casting is called when converting an int to a double?**  
    a) Narrowing Casting  
    **b) Widening Casting**c) Implicit Casting Only