

17. Give a brief account on the types of inheritance in .Java.
18. Explain in detail about
- (a) Multitasking
  - (b) Process-based multitasking
  - (c) Thread—based multitasking
19. Illustrate with suitable frame work about the hierarchy of AWT classes.
20. Explain briefly about Creating .JDBC Application and Import JDBC Packages
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NOVEMBER/DECEMBER 2019

**BSC31 — JAVA PROGRAMMING**

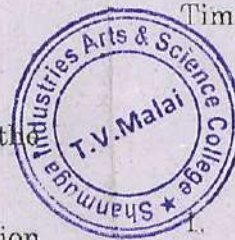
Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.

1. What is a Local Variable?
2. What is an Instance Variable?
3. When Abstract methods are used?
4. What is the primary benefit of Encapsulation?
5. When Arithmetic Exception is thrown?
6. Which arithmetic operations can result in the throwing of an Arithmetic Exception?
7. What is the difference between Swing and AWT components?
8. What is an applet?
9. Mention the purpose of JDI3C.
10. What is the difference between ODBC and JDBC?





SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Write any five important features of Java Programming.

Or

- (b) Discuss the steps for setting up the path For java in Windows.

12. (a) Explain in detail about  
(i) Hybrid Inheritance  
(ii) Multi Level Inheritance

Or

- (b) Write short note on creating Package in Java? Give an example:

13. (a) Write the difference between String and StringBuffer.

Or

- (b) Discuss about the Methods of String Tokenzer in java.

14. (a) Discuss about any five differences between an applet and a standalone Java application.

Or

- (b) Create an instance of Frame Class showing a button component in the frame using simple AWT.

15. (a) Write short notes on Network Protocol driver with suitable diagram.

Or

- (b) Discuss the important common components of JDBC.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about

- (a) if statement  
(b) if else statement  
(c) nested if statement.

