

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, APRIL - 2026**

OBJECT ORIENTED PROGRAMMING

[Maximum marks: 75]

[Time: 3 Hours]

PART A

I. Answer all the following questions in one word or one sentence. Each question carries 1 mark

(9 x 1 = 9 Marks)

		Module outcome	Cognitive level
1	Variables defined within a class are called.....	M1.04	R
2	Constructors have no return type. State True or False.	M1.06	R
3	In Java, which keyword is used to derive a new class from an existing class.	M2.01	R
4	State the use of super keyword.	M2.02	U
5	Define overriding.	M2.03	R
6	Which class creates a swing push button?	M3.02	R
7	State true or false:- An action event is generated when the user presses enter key inside JTextField.	M3.05	U
8	Define database.	M4.01	R
9	Write the statement to close a database connection.	M4.03	R

PART B

II. Answer any eight questions from the following. Each question carries 3 marks.

(8 x 3 = 24 Marks)

		Module outcome	Cognitive level
1	Write short note on constructor.	M1.06	R
2	List the features of java language.	M1.02	R
3	How would you define superclass and subclass?	M2.01	R
4	What is meant by multilevel inheritance?	M2.01	U
5	How would you differentiate checkbox and radio button?	M3.02	U
6	Explain the use of JTextField. Which method is used to retrieve the text in JTextField?	M3.03	U
7	Write short note on swing.	M3.01	R
8	Describe the select command with example.	M4.02	U
9	Explain JDBC Statement interface.	M4.04	U
10	What is the use of Delete command? Write syntax.	M4.02	U

PART C

Answer all questions. Each question carries seven marks

(6 x 7 = 42 Marks)

		Module outcome	Cognitive level
III	Outline the general structure of a Java program with example. OR	M1.03	U
IV	Write how to define classes and create objects	M1.05	U
V	Write a java program to create a class called Person that has name and age as instance variables. Add a constructor that initializes these variables and a method called introduce() that prints out the name and age of the person. OR	M1.06	A
VI	Explain Exception Handling in java.	M1.12	R
VII	Write visibility controls in java. OR	M2.05	R
VIII	With example, explain how to implement multiple inheritance in java.	M2.07	A
IX	Write a java program to create a class called Employee with instance variables name and salary . Create a subclass called Manager that adds an instance variable department . Display the name, salary, and department of the manager using a method printDetails() . OR	M2.02	A
X	Explain extending and implementing interfaces with example.	M2.07	U
XI	Write a java program to create a GUI that has a JLabel showing the text "Select your favourite colour:", a JComboBox with options for "Red", "Green", and "Blue", and a JButton that, when clicked, displays a message with the text "You selected [color]". OR	M3.06	A
XII	Write short notes on Event classes and Listener interfaces.	M3.02	R
XIII	Explain the key interfaces required to develop database application in java. OR	M4.04	U
XIV	What is meant by sql? Write sql commands and their syntax to do the following. a) Create a database table b) insert data into the table	M4.03	U
