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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, APRIL - 2025

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	is a blueprint or prototype from which objects are created.	M1.01	R
2	Why is java programs said to be platform independent?	M1.02	R
3	Which keyword is used for implementing inheritance in java.	M2.01	R
4	Which inheritance is implemented with the help of interface.	M2.07	R
5	List any two swing components.	M3.01	R
6	Define an event.	M3.02	R
7	is used to create a button using swing.	M3.06	R
8	What is the fullform of JDBC.	M4.03	R
9	Which method is used to register the Driver class for database	M4.04	R
	connectivity.		

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	Explain how a parameterized constructor can be used to initialize the objects of a class BankAccount with instance variables accno and name.	M1.04	U
2	Compare the private, protected and public access modifiers in java.	M1.10	U
3	Write the java code for implementing following inheritance hierarchy	M2.01	U

4	Write the uses of final keyword.	M2.06	U
5	List the advantages of Swing.	M3.01	R
6	Write down the events and the corresponding event listeners	M3.02	U
	associated UI elements such as TextField, Button and Window.		
7	List the various types of mouse and keyboard events.	M3.04	U
8	What is relational database?	M4.01	U
9	Write down the various types of SQL commands.	M4.02	R
10	Write down the uses Prepared Statement interface.	M4.04	U

PART C Answer all questions. Each question carries seven marks

		(6 x 7 = 42 Marks)	
		Module outcome	Cognitive level
III	Explain about the different types of object oriented concepts.	M1.01	U
	OR		
IV	Explain about different types of constructors.	M1.06	U
V	Outline the general structure of a java program and explain steps	M1.03	U
	to create, compile and execute a program.		
	OR		
VI	With the help of an example explain how exceptions can be	M1.12	U
	handled in java.		
VII	Build a class named Person with instance variables name and	M2.03	А
	address, a constructor for initializing. Derive a new class Student		
	from Person class with instance variables roll no and class,		
	constructor for initializing. Create the objects of student class.		
	Implement this scenario in java.		
	OR		
VIII	Consider a scenario where there are two classes: 'BaseClass' and	M2.04	А
	'DerivedClass', such that 'DerivedClass' is inherited from		
	'BaseClass'. A function 'public void myFunction()' is defined in		
	both classes. State just the code sequences that would lead to a		
	method overriding sceario and why this scenario is known as run		
	time polymorphism.		


