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Pokhara University Internal Assessment

Semester Fall

Year: 2023

t and Dashalar		2025
Level Bachelor Full Mark		s: 100
Program: B.E. Software (III rd Sem) Pass I		rks: 45
Subject Advance Programming in Java Tim		3 hrs.
Candida	ates are required to give their answers in their own words as far as practicable in the margin indicate full marks. Attempt all questions.	e. The
	Explain the Java architecture and the significance of class paths in Java.	7
	Explain the concept of exception handling in Java Write an example program	8
2 a)	Describe the purpose of interfaces in Java and how they differ from abstract classes.	8
2.6)	Differentiate between upcasting and downcasting in Java. Provide examples to illustrate each.	7
3.a)	Explain layout management in Java Swing Write a program to demonstrate a login form with username and password field with a sign in button. OR	8
	Explain VBox or HBox in Java Write a program to demonstrate the user registration form with a submit button.	
3,6)	Compare JavaFX and Swing. Discuss the strengths and weaknesses of each.	7
4.a)	Explain the concepts of TCP, UDP, IP Address, and Ports in the context of network programming	8
4.6)	Explain the architecture of RMI (Remote Method Invocation) OR	7
	Explain the architecture of CORBA (Cross Origin Request Broker)	
5.a)	Explain the concepts of IDL (Interface Definition Language) and provide a simple CORBA program example.	7
5.b)	Differentiate between JDBC driver types and discuss their configurations	8
6.a)	Discuss HTTP methods and responses in web applications.	7
6.b)	Explain the life cycle of web servlets.	8

