

Program: S.Y.B.Sc IT **Semester:** IV **Program Code:** UGIT01
Course: Core Java Techniques **Course Code:** NUIT401
Duration: 1 Hour **Examination Pattern:** NEP - Autonomous - External **Max. Marks:** 30

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat diagrams wherever necessary.

Examination:
REGULAR

Q. 1	Attempt any THREE of the following.	[15]	Course Outcome	Knowledge Level
	(a) List any five features of java.		CO1	L1
	(b) Explain how the static keyword allows methods to be called without object instantiation.		CO3	L2
	(c) State the syntax of a basic for loop in Java using an example.		CO2	L1
	(d) Java's support for multiple interface implementation despite lacking multiple inheritance. Justify.		CO3	L6
	(e) Explain abstract class and abstract methods.		CO4	L2
Q. 2	Attempt any THREE of the following.	[15]	Course Outcome	Knowledge Level
	(a) Differentiate between process and threads in java.		CO2	L4
	(b) Evaluate whether a provided Java exception handling code effectively uses all five keywords (try, catch, throw, throws, finally) for robust error management, and suggest improvements.		CO4	L5
	(c) Define a package in Java and list its advantages like namespace organization.		CO1	L1
	(d) Create a diagram or code simulating the full thread lifecycle with state transitions.		CO3	L6
	(e) State the basic syntax for creating a JButton in Swing using classes.		CO4	L1

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