K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Nov – Dec 2025	
B. Tech Program Scheme III	
Regular Examination: SY Semester: III	
Course Code: AIC304 and Course Name: Object Oriented Programming with Java	
Date of Exam: 29/11/2025 Duration: 02.5 Hours	Max. Marks: 60

Instructions:
(1) All questions are compulsory.
(2) Draw neat diagrams wherever applicable.
(3) Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	**Solve any two questions out of three: (05 marks each)**	10		
a)	What is an Interface? Explain with an example.		CO3	U
b)	Explain the difference between break and continue statements with examples.		CO1	U
c)	Describe the difference between while and do-while loops. Give examples showing their use.		CO1	U
Q 2	**Solve any two questions out of three: (05 marks each)**	10		
a)	Create a class **BankAccount** with overloaded constructors to initialize: • account number only • account number and name • account number, name, and initial balance Write code to create all accounts and print their details.		CO2	Ap
b)	Write a Java program to find the largest and smallest elements in an integer array.		CO2	AP
c)	What is abstraction? Explain with an example.		CO2	U
Q.3	Solve any **two** questions out of three. (10 marks each)	20		
a)	Explain the concept of Packages with an example.		CO3	U
b)	Explain the concept of Exception Handling in Java.		CO4	AP

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	Write a Java program that demonstrates the use of try, catch, finally, and throw keywords.			
c)	Write a program to create a file , write data to a file and read data from a file.		CO4	AP
Q.4	**Solve any two questions out of three. (10 marks each)**	20		
a)	Explain the concept of AWT (Abstract Window Toolkit) in Java. Write a Java program to create a simple calculator GUI using AWT .		CO5	AP
b)	Write a program to develop a Login Form using Swing in java.		CO5	AP
c)	Explain JavaFX and its key features. Describe the main components of a JavaFX application and explain the role of the Stage, Scene, and Nodes with the help of a neat diagram.		CO6	U

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