Total No. of Questions - [2	Total	No.	of (	Duestions -	[2]
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G.R. No.	

Total No. of Printed Pages: 2

PAPER CODE	V129-399.
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## March 2024 (INSEM) EXAM

F.Y.B. TECH. E&TC (SEMESTER - II)

**COURSE NAME: Object Oriented Programming** 

**COURSE CODE: ET12234** 

(PATTERN 2023)

Time: [40 min]

[Max. Marks: 20]

- (\*) Instructions to candidates:
- Figures to the right indicate full marks.
- 2) Use of scientific calculator is allowed
- 3) Use suitable data wherever required
- 4) Solve any two sub questions from Question 1 and 2

No.		l.		Blooms
				Taxonomy
				Level
	the implementation of a Java	[5]	1	Understand
	ing temperature values between			
	? The program should prompt the			
user to specify the conver	sion direction (from Celsius to			
1 .	it to Celsius) and then input the			
	ppropriate control structures to			
execute the conversion based	on the user's selection and display			
the result to the user.		ļ		
Q.1 b How can you illustrate a Java	rogram to simulate a simple ATM	[5]	1	Understand
transaction process? The progr	am should prompt the user to input			
their PIN (Personal Identifi	cation Number). Utilize a loop	:		
structure to allow the user mu	Itiple attempts to enter the correct			
PIN. If the user enters an inc	orrect PIN three times, display a			
message indicating that the	account is locked and exit the			
program. Use break to exit lo	p on correct PIN, and continue to			
skip invalid entries.				
Q.1 c Describe the significance of d	ta types in Java programming and	[5]	1	Understand
analyze their roles in facilita	ting efficient program execution.			
Illustrate the distinction betw	een primitive and reference data			
l I	appropriate data types on program			
	considering factors such as storage			
requirements and performance	optimization.			

Q.2 a	Compare and contrast method overloading and method overriding in Java. Provide examples to illustrate each concept and discuss their respective use cases.	[5]	2	Analyze
Q.2 b		[5]	2	Apply
Q.2 c	Write a program that simulates a banking system where users can deposit, withdraw, and check their balance. How would you ensure that the user's account information remains secure and inaccessible from outside sources, utilizing encapsulation principles?	[5]	2	Apply