LIN ONLINE IN THE	Enrollment	No.	
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END TERM EXAMINATION (CBCS)(SUBJECTIVE TYPE)

Course Name: MCA (IT), Semester:2nd

(MAY, 2024)

Subject Code: MCA 102	Subject: Object Oriented Programming using Java			
Time :3 Hours	Maximum Marks :60			
Note:Q. 1 is compulsory. Attempt one question each from the Units I, II, III & IV.				
Note:Q. I is compulsory. Attempt one questi	off each from the offics i, ii, iii a ret			

QI		(5*4			
	=20)				
1	Explain why java is platform independent and create a program to generate factorials of a number.				
2	Use a program to explain i) try with multiple catch ii) interface				
3	Explain: i) benefits of inheritance in java ii) Use of final		\perp		
4	What is i)Event handling model ii) Multithreading in java				
	UNIT-I				
Q2	Explain the features of Java and JVM architecture. Write a program that takes	(10)			
	two numbers using java.io and prints them out. Then use a for loop to print the	-	1		
	next 17 numbers in the sequence where each number is the sum of the previous				
	two.	=			
Q3	What is Class and Objects? Explain Array of objects. Design a class Person which	(10)	5.42		
/	will have following information:Aadhaar Number(type:int), Person	100			
	Name(type:String), Age (type:int) and Birth Date. Provide appropriate				
	constructor(s) & methods to this class. Create a main function and 3 objects of		4		
	Person using an array of objects.	-			
4	UNIT-II		16.		
Q4	What are predefined and user defined packages in java, how to use them and	(10)	-		
- 1	explain benefits of using packages?Use a program to explain the visibility of	(10)			
	members of a class in the sub class, non subclass in the same and different	1			
	package.	1			
95	Explain the compile time and run time polymorphism and use of super. Write a	(10)	- (t) - (t)		
/	Java program to create a class known as "BankAccount" with methods called	(10)			
	deposit() and withdraw(). Create subclass called SavingsAccount and		18		
	CurrentAccount class that overrides the withdraw() method to prevent				
	withdrawals if the account balance falls below five hundred for saving				
	account.Create objects and show the use of dynamic method dispatch.		5,		
	UNIT-III		-		
Q6	What is the I/O stream?Evolain the use of puttern In				
-	What is the I/O stream?Explain the use of BufferedReader in java and create a	(10)			
	program to read the content of a file (number.txt) and check if the number is				
Q7	even or odd and display all the even numbers on console. What is the exception handling machanism in				
7	What is the exception handling mechanism in java?Use a program to explain any	(10)			
- ·	three checked and unchecked exceptions and also show use of user defined exceptions.				
18	Differentiate had a second of the second of				
18	Differentiate between Multitasking and MultiThreading? How to create a thread	(10)			
19	Java: Also show the use of sleep . Join and is Alive methods using the program				
-	The critical detween different containers in AW/T2W/hat is the default level of	(10)			
	Party and Hallier USINE AWT Create Rank Account Form/Dankform invaluable	` '			
	tent lielus, faulo button therehov and porform event handling on at				
	least two components	- 1			