Printed	Page:- 04	Subject Code:- ACSE0402 Roll. No:				
	NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA					
(An Autonomous Institute Affiliated to AKTU, Lucknow)						
	B.T.					
	SEM: IV - THEORY EXAMI Subject: Object Oriented	·				
Time: 3	3 Hours	Max. Marks: 100				
	Instructions:					
		per with the correct course, code, branch etc.				
<b>1.</b> This Q	uestion paper comprises of three Sec	tions -A, B, & C. It consists of Multiple Choice				
Questions	s (MCQ's) & Subjective type questions.					
2. Maximum marks for each question are indicated on right -hand side of each question.						
	ate your answers with neat sketches wher	ever necessary.				
	<b>4.</b> Assume suitable data if necessary.					
_	ably, write the answers in sequential orde	r. en material after a blank sheet will not be				
	d/checked.	in material after a blank sheet will not be				
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4 0440		20				
	ppt all parts:-	1				
1-a.	Redefining of information is (CO1)					
	(a) Inheritance					
	(b) Encapsulation					
	(c) Abstraction					
	(d) Polymorphism					
1-b.	The main aim of OOPS is to (CO1)	1				
	(a) bind the code and data					
	(b) bind the class and object					
	(c) bind the code only					
	(d) bind the data only					
1-c.	Garbage Collection is process.	(CO2) 1				
	(a) Automatic					
	(b) Manual					
	(c) Realistic					

	(d) None of the above
1-d.	The feature that allows the same operations to be carried out differently depending on the object (CO2)
	(a) polymorphism
	(b) polygamy
	(c) inheritane
	(d) multitasking
1-e.	Which of the following statement is correct? (CO3)
	(a) replace() method replaces all occurrences of one character in invoking string with another character.
	(b) replace() method replaces only first occurances of a character in invoking string with another character.
	(c) replace() method replaces all the characters in invoking string with another character.
	(d) replace() replace() method replaces last occurrence of a character in invoking string with another character.
1-f.	Which of these keywords must be used to handle the exception thrown by try block in some rational manner? (CO3)
	(a) try (b) finally
	(c) throw
	(d) catch
1-g.	method of FileReader class is used to read characters from a file (CO4)
	(a) read()
	(b) scanf()
	(c) get()
	(d) getInteger()
1-h.	Which of these classes are used by Byte streams for input and output 1
	operation? (CO4)
	(a) Input Stream
	(b) InputOutputStream
	(c) Reader
	(d) All of the mentioned
1-i.	Which of these events generated when a button is pressed? (CO5)

	(a) ActionEvent	
	(b) WindowEvent	
	(c) ItemEvent	
	(d) KeyEvent	
1-j.	A dictates the style of arranging the components in a container.	1
	(CO5)	
	(a) border layout	
	(b) grid layout	
	(c) panel	
	(d) layout manager	
2. Atte	empt all parts:-	
2.a.	Can we hide data in OOPS? If yes, elaborate. (CO1)	2
2.b.	Define Abstract class. (CO2)	2
2.c.	Implement a constructor with parameters in a Java class. (CO3)	2
2.d.	Explain the drawbacks of creating Thread by using Thread class. (CO4)	2
2.e.	Define layout manager. (CO5)	2
	SECTION B	30
3. Ans	wer any <u>five</u> of the following:-	
3-a.	Explain the benefits of Inheritance. (CO1)	6
3-b.	Explain the four pillars of OOPS. (CO1)	6
3-c.	Compare overloading and overriding of methods in java using proper examples. (CO2)	6
3-d.	Identify the steps to create objects in java. How the members of a class can be accessed? (CO2)	6
3.e.	Can a class declare as private be accessed outside its package explain with example. (CO3)	6
3.f.	Explain the concept of multithreading in java and explain how even and odd numbers can be printed by using multithreading concept. (CO4)	6
3.g.	Sketch AWT Hierarchy and explain. (CO5)	6
	SECTION C	50
4. Ans	wer any <u>one</u> of the following:-	
4-a.	Explain if condition with its syntax and an example. (CO1)	10
4-b.	Define command line arguments. Why are they important? Justify your answer	10

with suitable example. (CO1)

## 5. Answer any <u>one</u> of the following:-

5-a.	Multiple inheritance is not supported through class in Java, but it is possible by an interface. Why? Use suitable example to support the answer. (CO2)	10		
5-b.	Explain Constructor Overloading with the help of a suitable program. (CO2)	10		
6. Answer any <u>one</u> of the following:-				
6-a.	Write a short note on the use of throw, throws and finally. (CO3)	10		
6-b.	Explain the working of append method of string buffer class. Write a program which demonstrates append method. (CO3)	10		
7. Answer any <u>one</u> of the following:-				
7-a.	Write a simple JAVA program to create threads. (CO4)	10		
7-b.	Write a JAVA program for creating, applying and accessing annotation. (CO4)	10		
8. Answer any <u>one</u> of the following:-				
8-a.	Write a JAVA program to implement mouse events. (CO5)	10		
8-b.	Explain the process of accessing collection through iterator with the help of JAVA code. (C05)	10		