	Enrol	lment No:		Exam Seat No:			
				UNIVERSITY			
	Winter Examination-2018						
	Subject Name : Object Oriented Programming with Java						
	Subject Code: 4TE04OPJ1		4TE04OPJ1	Branch: B.Tech (CE)			
	Semes	ster : 4	Date: 02/11/2018	Time: 10:30 To 01:30	Marks: 70		
	(2)	Use of P Instruction Draw ne	ons written on main answe	any other electronic instrument is prohor book are strictly to be obeyed. Inecessary) at right places.	ibited.		
Q-1		Attempt	the following questions:		(14)		
	a)		se of super?				
	b)	_	rbage collection in Java.	9			
	c) d)	-	is a platform independent lan of static keyword.	guage?			
	e)		e use of Left-shift operator in	Java?			
	f)		nethod overriding?	Juvu.			
	g)		ate application and applet.				
	h)			ate and protected visibility modifiers in	Java?		
	i)		stract class.	1			
	j)		ne use of throws and throw	n in exception handling?			
	k)		ollection in Java?				
	1)	What is o					
	m)		capsulation.				
Atte	n) mpt an		us types of layouts in apple estions from Q-2 to Q-8	et.			
Q-2		Attempt	all questions				
	(a)	1	eatures of Java in brief.		(07)		
	(b)			is the use of polymorphism?	Explain (07)		
		static a	and dynamic binding wi	th suitable example.			
Q-3		_	all questions				
	(a)			and unchecked exceptions? Explain w	ith (05)		
	(L)	suitable ex	*	:1	(02)		
	(b) (c)	-	se of final keyword in deta	alphabets of one String with the dela	(03) y of 1000 (06)		
	(0)	-		of another String with the delay	•		

Q-3 Milliseconds. Create two threads to implement this work. Q-4 **Attempt all questions** (a) What is difference between constructor and method of class? Define **(07)** method overloading and its purpose. Explain constructor overloading



		with suitable example.					
	(b)	Explain interface in JAVA. How do interfaces support polymorphism?	(07				
Q-5		Attempt all questions					
	(a)	What is the use of finalize() method?	(03)				
	(b)	Write a program in Java that will copy one array into another in reverse order and	(04				
		display them.					
	(c)	Explain various types of inheritance supported by Java with suitable example.	(07				
Q-6		Attempt all questions					
	(a)	Explain thread life cycle in detail. What is multithreading? Write a program that	(07				
		creates three threads. Make sure that the main thread executes last.					
	(b)	What is a package? Explain packages in Java with suitable example.	(07				
Q-7		Attempt all questions					
	(a)	What is thread synchronization in Java? Explain with join() and isAlive() method.	(07				
	(b)	Write a program that creates File and Edit menus in an Applet.	(07				
Q-8		Attempt all questions					
	(a)	Explain execution cycle of an applet in detail. Also explain boarder	(07				
		layout					
	(b)	What do you mean by event delegation model in Java? Explain in detail use of adapter class, inner class and anonymous inner class with suitable example.	(07				

