	Enrol	lment No:				Seat No:			_
	C.U.SHAH UNIVERSITY Summer Examination-2018								
	Subject Name : Object Oriented Programming with Java								
	Subject Code: 4TE04OPJ1				Branch: B.Tech (CE, IT)				
	Semes	ster : 4	Date: 08/0	05/2018	Time	e: 10:30 To 0	1:30	Marks: 70	
	(1) (2) (3)	) Instruction ) Draw ne	rogrammable calons written on ma at diagrams and f suitable data if no	ain answer be figures (if ne	ook are stri	ctly to be obe		hibited.	
Q-1	a) b) c) d) e) f) g) h) i) k) l) m)	What is ga Write use of Explain ke Explain rig What is A What is C There is n Explain fi Explain us JVM is pl What is th How upda	ethod parseInt (). tht-shift operator. pplet? ollection in Java? o destructor in Ja nalize () method a se of throw and the atform dependent the use of Interface tite () method wor	in Java?  va. Justify. in Java. nrows in Exc t. Justify. e in Java?	•	ndling.			(14
Atte	n) mpt ar	What is ca <b>y four que</b>	anvas ? estions from <b>Q-2</b>	to Q-8					
Q-2	_	Attempt a Explain for 3) High Pe	all questions bllowing features rformance, 4) Inter fe cycle of an A	of Java in de	namic, 6) D	istributed, 7) P	ortable		(07 <sub>0</sub>
Q-3	(a) (b) (c)	Attempt a Write a pr Differenti Explain	all questions ogram to display ate between abstr bublic, private,	act class and	d interface	n Java.	•		(05 (03 (06
Q-4	(a) (b)	What is co Write an a OK is pres	all questions onstructor? Expla pplet that contains sed shown on the NCEL is pressed -	three buttons status bar-"C	s OK, CAN OK is presse	CEL and HEL ed" and the tex	P and one t field sho	text field. If uld turn red.	(07 (07



the text field should turn yellow. Q-5 Attempt all questions (a) Explain use of keyword final by giving suitable examples. (03)(b) Differentiate the followings: (04)(i) Checked and Unchecked Exceptions (ii) Constructor and method (c) Explain thread synchronization in Java with join() and is Alive() methods. (07)**Attempt all questions Q-6** (a) Explain Thread Life Cycle in detail. Write a code to create Thread in JAVA. (07)**(b)** Explain dynamic method dispatch with suitable example. (07)**Attempt all questions Q-7** (a) Explain in detail use of adapter class, inner class and anonymous inner class with (07)suitable example. Explain method overriding in Java. Describe an abstract class called Shape which (07)has three subclasses say Triangle, Rectangle and Circle. Define one method area() in the abstract class and override this area() in these three subclasses to calculate for specific object i.e. area() of Triangle subclass should calculate area of triangle etc. Same for Rectangle and Circle Q-8 Attempt all questions (a) List and explain different types of layout. Write a program that implements Border (07)Layout, Flow Layout and Grid Layout using panel. **(b)** Write a complete program to accept N integer numbers as command line arguments. (07)Raise and handle exceptions for following cases: - when a number is -ve. - when a number is evenly divisible by 10 - when a number is greater than 1000 and less than 2000

Skip the number if an exception is raised for it, otherwise add it to find total sum.

- when a number is greater than 7000

should turn green. When HELP is pressed shown on the status bar-"HELP is pressed" and

