кеg	ISTra	ation no:												
210		210		210			210			210		210		2
Tota	ıl Nu	umber of Pag	ges: 03										B.TEO PCIT43	
		5 th S	emesto	JA	_	PRO	GR/	NM	IING		า 20	16-17		
210		210		210	M	ax M	3 Ho arks E: Y	: 70		210		210		2
		Answer Que					-	_		-			est.	
Q1	a)	Answer the Name the acce Why packages	ess specif	i ng qu iers not	estio used v	ns:					illa	IKS.	(2 x 10))
210	b) c) d) e)	What is the did Why applet do What is the did	fference b es not ha fference b	petweer ive men betweer	n throv u bar n pane	title b I and	oar or frame	borde e?		210		210		2
	f) g)	How we can exsyntax with ex What is the outlass A	ample?	_							string	?Write the		
210		<pre>final public i } class B extend:</pre>		ult(int a	ı, int b) { ret	²¹⁰ urn 0;	}		210		210		2
		<pre>{ public intGe }</pre>	·	nt a, int l	b) {ret	urn 1;	}							
210		public class Te { public static { B b = new	void mai	210 n(String	args[])	210			210		210		2
		System.out.pri } }	intln("x =	" + b.G€	etResu	lt(0, 1)) ;							
210	h)	Write the Outpublic class test { public void t { int x= 0; while (1)	st	proper ji	ustifica	ation?	210			210		210		2
210		{ System.out.pr	intln("x p	lus one	is " + x	: + 1) ;	210			210		210		2

}
}

```
What is the output of the following program with justification?
public class Test
  public static void main(String args[])
    class Foo
    {
      public int i = 3;
    Object o = (Object) new Foo();
    Foo foo = (Foo) o;
System.out.println("i = " + foo.i);
  }
}
What is the output of the following program with justification?
public class MainClass
     public static void main(String[] args)
     {
          int i = 10 + + 11 - - 12 + + 13 - - 14 + + 15;
         23System.out.println(i);
}
```

- Write a java program to compute following using multithreading and set priority in such a way that execution will start from last function
 - Square root of any No without using sqrt or pow function?
 - Factorial of any Number
 - ➢ GCD
 - > LCM
- Write a program to display one bouncing ball which is dropped from some height represented by coordinate (50,10) and after that it will bounce and finally stop at the position(500,450) using Applet? Here size of the window is 500 * 500 and color of the ball is blue and background is yellow?

Q4	a)	What is method overloading? Write a program to print following using method overloading and interface?							
210		210 * 210 210 210 210							
		* * 2 3							
		* * * 4 5 6							
		* * * * 7 8 9 10							
210	b)	What is package? Write a program to find out sum of product of consecutive digits of a number using interface, package and command line arguments? Suppose Number is 12345 then Result will be 1*2 + 2*3 + 3*4 + 4*5	(5)						
Q5	a)	Write a program to move your pic of size (200,300) horizontally from top to bottom in standard window using swing?	(5)						
210	b)	What is the difference between method overloading and method overriding? Write a program to find out area and perimeter of rectangle and square using method overriding and also call the overridden function using dynamic method dispatch and also use abstract class as base class?							
Q6 210	a)	What is the difference between Checked Exception and unchecked Exception? Following program belongs to which category? Write a java program to create your own exception which creates Palindrome Exception whenever any palindrome number was detected?							
210	b)	What is super keyword and why it is used? Write a java program to find out cost, weight and volume of a box using multilevel inheritance and use super keyword at proper places? 210 210 210							
Q7	a)	What is the difference between capacity and length in string Buffer? Write a java program to sort 10 strings in alphabetical order?							
210	b)	What is network? Write a java program to create chat application in which client will say hi then server will reply as hello using socket programming?	(5)						
Q8	a) b) c) d)	Short Notes on any Two: Life cycle of Thread Exception Hierarchy Encapsulation Modifiers	(5 x 2)						