С		Reg. No. :								
Question Paper Code: 59801										
	B.E. / B.Tech. DEGREE EXAMINATION. MAY 2018									
	Elective									
Information Technology										
	15UIT901- PROGRAMMING PARADIGMS									
		(Regula	tion 20)15)						
Dura	Duration: Three hours Maximum: 100 Marks									
		Answer Al	LL Que	estions	5					
PART A - $(5 \times 1 = 5 \text{ Marks})$										
1.	Providing access to an object only through its member functions, CO1- R while keeping the details private is called									
	(a) Information hiding	(b) Encapsul	ation	(c) Mod	lularity	у (d) Inh	erita	nce
2.	In python a string is a operator.	ppended to anot	ther st	ring t	oy usi	ing w	hich			CO2- R
	(a) + (b)*	*	(c)[]				(d) +=		
3.	What will be the result of import java.awt.*; import java.applet.*; public class Test extends Label 1 = new Label("He public void init() { setSize(200,100); setVisible(true); l.setBackground(new Co setLayout(new GridLayo add(l):	f compiling and r Applet { llo"); lor(0,100,180)); ut(1,1));	unning	the fc	ollowi	ng cod	le?		C	CO3- R

setLayout(new FlowLayout());

	l.set }	Bounds(0,0,100,24);					
	(a) The label will fill half the display area of the applet.						
	(b) The label will be wide enough to display the "Hello"						
	(c) The label will not be visible.						
	(d) The label will fill entire display area of the applet						
4.	The two subclasses of Throwable are CC						
	(a)]	Error and AssertionError	(b) Error and Exception				
	(c)	Checked and Unchecked Exception	(d) Error and Runtime Excep	otion			
5.	Wh	ich type of exception does a join() me		CO5- R			
	(a)A	Arithmetic Exception	Exception				
	(c)Array Index Out Of Bounds Exception (d)Interrupted Ex				xception		
		PART – B (5 x 3= 15Marks)				
6.	What do you mean by instance variable? CO1- R						
7.	What is DoJo?			CO2- R			
8.	List the steps needed to show a frame.			CO3- R			
9.	What is an exception?			CO4- R			
10.	Brief about Executors class. CO5- R				CO5- R		
		PART – C	C (5 x 16= 80Marks)				
11.	(a)	Develop an abstract Class Polygon from which Triangle and CO1- App Rectangle are derived. Each Polygon should contain the function Area() to calculate the area of them. Invoke appropriate Area() function to calculate the area using pointer to base class and pointers to derived classes.					
	Or						
	(b)	(i) Compare interfaces and abstract	classes.	CO1- App	(8)		
		(ii) Illustrate dynamic binding with	an example.	CO1- App	(8)		

12. (a) What is Python list? Explain the basic list operations with CO2-U (16) suitable examples

Or

(b)	Compare and contrast J2EE framework with .NET framework	CO2- Ana	(16)
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13. (a) Explain AWT Event Handler in detail with example. CO3 - U (16)

Or

- (b) Describe the types of layout management and swing components CO3-U (16) briefly.
- 14. (a) Explain the generic classes and generic methods with example. CO4- U (16)

Or

- (b) Explain briefly about user defined exceptions and stack trace CO4-U (16) elements in exception handling mechanisms.
- 15. (a) What are interrupting threads? Explain thread states and CO5-U (16) synchronization.

Or

(b) Discuss thread safe collections briefly. Write a simple multi CO5- Ana (16) threaded program for readers writers problem.