P P SAVANI UNIVERSITY

First Semester of B. Tech. Examination December 2022

SSIT1071: Object Oriented Programming with Java

07.12.2022, Wednesday Time:

Instructions:

Time: 01:00 a.m. To 03:30 p.m.

Maximum Marks: 60

	1 The au						
		estion paper comprises of two sections.					
		I and II must be attempted in separate answer sheets. uitable assumptions and draw neat figures wherever required.					
		. Use of scientific calculator is allowed.					
	1. 050 01.	ordinary curvature is another					
		SECTION - I					
	Q-1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]	CO	BTL		
	(i)	Which one of the following is not a Java feature?		1	1		
	`	A. Object-oriented		,			
		B. Use of pointers					
		C. Portable					
		D. Dynamic and Extensible					
	(ii)	Which environment variable is used to set the java path?		1	1		
		A. MAVEN_Path					
		B. JavaPATH C. JAVA					
		D. JAVAHOME					
	(iii)	Which one is a template for creating different objects?		1	1		
		A. An Array					
		B. A class					
		C. Interface					
		D. Method					
	(iv)	Select the valid statement.		1	2		
		A. char[] ch = new char(5)					
		B. char[] ch = new char[5] C. char[] ch = new char()					
		D. char[] ch = new char[]					
	(v)	Explain "this" Keyword		2	1		
	(vi)	Define Object		1	1		
	(vii)	List types of Datatypes		1	1 .		
	Q-2(a)	What is type casting? Discuss types of conversions.	[05]	1	2		
	Q-2(b)	What is Constructor? Explain the Constructor Overloading with example.	[05]	1	1		
		OR					
	Q-2(a)	Advantages, disadvantages of Object oriented programming?	[05]	. 1	1		
					3		
	Q-2 (b)	Explain switch - case with syntax and example.	[05]	1			
	Q-3(a)	Short Note: Wrapper Class	[05]	1	1		
	Q-3 (b)	Explain relational operators with example.	[05]	1	2		
		OR					
	Q-3(a)	Explain Logical operator with example.	[05]	1	2		
	Q-3(b)	Explain do – while loop Syntax, Example and Program.	[05]	1	3		

	A service on the service of the serv	[05]			
Q - 4	Attempt any one/two. Write a program to print Fibonacci series based on the user input in Java.		1	6	
(i)	Write a program to print ribonacci series based on the print ribonacci series based				
	Output : Fibonacci Series of 10 numbers : 0 1 1 2 3 5 8 13 21 34		1	6	
(ii)	Write a program to find maximum of three numbers.				,
()	SECTION - II				
0 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]	1	2	
Q-1	Which of the following is a superclass of every class in Java?		1	2	
(i)	A. ArrayList				
	B. Abstract class				
	- C. Object class				
	D. Chains		3	2	
(ii)	Which of these keywords are used for the block to be examined for				
	-exceptions?			-	No.
	A. check				-
	B. throw				
	C. catch				
	D. try Which of these operators is used to allocate memory to array variable in Java?		1		1
(iii)	A. alloc				
	B. malloc				
	C. new malloc				
	D. new		3		5
(iv)	All Java exceptions can be handled gracefully. State TRUE or FALSE.				
	A. TRUE				
	B. FALSE Define Polymorphism		2		1
(v)	Define Polymorphism What is the maximum number of Java Class files that can be kept inside a single	2	1		4
(vi)	Java Package?				
	A. 8				
	B. 64				
1	C. 128 D. Unlimited				_
(11)	What is the output of the below Java program with arrays?		1		5
(vii)	String[] ary = {"KITE", "AIR"};	_			
	String str = "PLANE";				
	ary[1] = str;				
	str = "FLY":				
	System.out.println(ary[1]);				
	A. AIR				
	B. PLANE				
	C. FLY				
	D. Compiler error				
	a) Compare String and StringBuffer	[0	5]	2	4
Q - 2 (a) Compare String and String and String Dates	[0	5]	2	3
Q-2(i de		
	OR		-1	2	5
Q-2(a) What is Interface? Explain with example.	[0	5]	2	
	. I 'the symmle	[0	[5]	1	2
Q-2((b) Explain this and super keyword with example.				2 of 3

	Explain try, catch and finally blocks?	[05]	3	1
Q - 3 (a)	What is use of File class? Explain various methods of File class.	[05]	2	2
Q-3(b)	What is use of File class? Explaint various methods of the OR			
2 2(-)	What do you understand by Applet? Describe the complete life cycle of Applet.	[05]	4	1
Q-3(a) Q-3(b)	Explain throw keyword. Give an example for throwing user define exception	[05]	3	5
The line	explicitly.	[05]		
Q-4 (i)	Attempt any one/two. Write a program that creates and initializes a four integer element array.		1	6
(-)	Calculate and display the average of its values.		3	6
(ii)	Describe abstract class called Shape which 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.			

: Course Outcome Number CO

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

Level of Bloom's Revised	axonomy in Assessment	
	2: Understand	3: Apply
1: Remember	5: Evaluate	6: Create
4. Analyze	J. Evaluate	