SIDDARTHA INSTITUTE OF SCIENCE AND TECHNOLOGY
PUTTUR

Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code : Object Oriented Programming through JAVA(19CS0510)
Course & Branch : B.Tech – CSE II Year

UNIT-I
INTRODUCTION OF OOP & THE JAVA LANGUAGE

1	a)	Explain History and Evolution of Java.	[L2][CO1]	**[4M]**
	b)	List and Explain Java Buzz Words.	[L1][CO1]	**[8M]**
2	a)	Define Conditional Operator. Narrate with the suitable example.	[L3][CO1]	**[6M]**
	b)	State the Java Selection Statements. Give an example to each one.	[L2][CO1]	**[6M]**
3	a)	With an example Explain about the Iteration Statements.	[L3][CO1]	**[6M]**
	b)	Illustrate the following OOP concepts: Abstraction, Encapsulation, Inheritance, Polymorphism.	[L2][CO1]	**[6M]**
4	a)	Define an Array. Classify the types of arrays in Java.	[L4][CO1]	**[6M]**
	b)	Define an Operator. Explain type of operators in Java with examples.	[L4][CO1]	**[6M]**
5	a)	List out the Jump statements in java. Give an example for each of them.	[L2][CO1]	**[6M]**
	b)	Discuss about command line arguments. Write a Program to add two numbers using command line arguments.	[L6][CO1]	**[6M]**
6	a)	Define the java Data Type. Give the declaration of variable in Java. Write the Rules.	[L3][CO1]	**[6M]**
	b)	What is the use of varargs in java? Describe with example program.	[L3][CO1]	**[6M]**
7	a)	Define a Byte Code. Give the different states of Java Program execution?	[L5][CO1]	**[6M]**
	b)	Write a Java program to use Bit-wise operators.	[L1][CO1]	**[6M]**
8	a)	Explain Java security, and Illustrate the Portability.	[L4][CO1]	**[6M]**
	b)	Explain the Structure of Java program. Explain type of programs in Java.	[L3][CO1]	**[6M]**
9	a)	Explain the Control Statements in Java with example.	[L3][CO1]	**[6M]**
	b)	Survey the use of static keyword in java with programming example.	[L4][CO1]	**[6M]**
10	a)	Write a Java program to read and display the array elements.	[L3][CO1]	**[8M]**
	b)	Identify the use of type casting in java programming.	[L3][CO1]	**[4M]**

UNIT-2
INTRODUCING CLASSES

1	a)	What is mean by OOP? Illustrate the Concepts OOP.	[L4][CO2]	**[6M]**
	b)	Write about Garbage Collector in Java and test how it works	[L5][CO2]	**[6M]**
2	a)	Define a Class, Method and Object. Write the syntax to define these in java.	[L3][CO2]	**[4M]**
	b)	What is a Constructor? Classify the types of Constructors in Java.	[L4][CO2]	**[8M]**
3	a)	Discuss about the static, final keywords with an example.	[L6][CO2]	**[6M]**
	b)	Write a java program to illustrate Constructor Overloading.	[L5][CO2]	**[6M]**
4	a)	Distinguish between method overloading and method overriding in java with suitable example.	[L4][CO2]	**[4M]**
	b)	What is Inheritance? Explain types of inheritances.	[L4][CO2]	**[8M]**
5	a)	Conclude the use of super keyword in java with example.	[L5][CO2]	**[6M]**
	b)	Write a java program to implement Method Overriding .	[L5][CO2]	**[6M]**
6		Explain about the Dynamic Method Dispath in Java with example program.	[L3][CO2]	**[12M]**
7		What is an abstract class? Explain all the cases to implement abstract class.	[L2][CO2]	**[12M]**
8		Develop a java program to implement inheritance concept.	[L6][CO2]	**[12M]**
9	a)	What is a package? How to create user defined package in java with example.	[L1][CO2]	**[6M]**
	b)	What is an interface? Rules to create an interface in java with example.	[L1][CO2]	**[6M]**
10		Write a java program to find the factorial value of the given number using user defined package concept.	[L3][CO2]	**[12M]**

UNIT-III
EXCEPTION HANDLING & MULTITHREADED PROGRAMMING

1		What is an Exception? Explain different types of Exception with example.	[L4][CO3]	**[12M]**
2	a)	Explain about Nested try statements with an example.	[L3][CO3]	**[6M]**
	b)	What are Java's Built-in Exception? Write the importance of finally block.	[L6][CO3]	**[6M]**
3	a)	Write a java program to create own exception for Negative Value Exception if the user enter negative value.	[L3][CO3]	**[6M]**
	b)	Distinguish between caught and uncaught exception.	[L4][CO3]	**[6M]**
4	a)	What is Multithreading? Illustrate the ways to create multiple threads in java.	[L4][CO3]	**[6M]**
	b)	Explain about Thread Life Cycle.	[L2][CO3]	**[6M]**
5	a)	Discuss how to set the priority to threads? what are the different ranges.	[L6][CO3]	**[6M]**
	b)	Write a java program to create two threads and execute simultaneously.	[L3][CO3]	**[6M]**
6	a)	What is synchronization? How many types? Explain.	[L6][CO3]	**[6M]**
	b)	Justify with an example java program to implement inter thread communication.	[L5][CO3]	**[6M]**
7	a)	What are Daemon Threads? Explain with an example.	[L3][CO3]	**[6M]**
	b)	Write a java program to implement join() method in multithreading.	[L3][CO3]	**[6M]**
8	a)	What is a String? Explain different String declarations with an example.	[L1][CO3]	**[6M]**
	b)	Write a java program to check the given string is palindrome or not.	[L3][CO3]	**[6M]**
9	a)	Write the difference between String and String Buffer classes.	[L4][CO3]	**[6M]**
	b)	Write a java program to sort the given names into ascending order.	[L3][CO3]	**[6M]**
10		Write a Java program that creates three threads. First thread displays — Good Morning‖ every one second, the second thread displays- Hello‖ every two seconds	[L3][CO3]	**[12M]**

UNIT-4
GENERICS & INTRODUCING FILE HANDLING

1		Define Generics. Explain about Generics in java.	[L3][CO4]	**[12M]**
2		Illustrate Generic class with an example.	[L5][CO4]	**[12M]**
3		What is collection in java? Describe about collection class in java.	[L2][CO4]	**[12M]**
4		Write short notes on collection frameworks of java.	[L4][CO4]	**[12M]**
5		Write a program illustrating following framework. a)Array List b)Vector c)Hash Table d)Stack	[L2][CO4]	**[12M]**
6	a)	Write about various stream classes in java.	[L6][CO4]	**[6M]**
	b)	Discuss about various file methods in java.	[L6][CO4]	**[6M]**
7		Discuss about the File Input Stream and File Output Stream in java with examples.	[L1][CO4]	**[12M]**
8	a)	How will you create a file in java with example.	[L3][CO4]	**[6M]**
	b)	How do you Write and Read a file in java with an example.	[L3][CO4]	**[6M]**
9		Explain File handling using File class.	[L6][CO4]	**[12M]**
10	a)	Write a java Program to read a text file and print the number of unique words.	[L3][CO4]	**[8M]**
	b)	Explain File operations in java?	[L2][CO4]	**[4M]**

UNIT-V
INTRODUCING THE AWT & JAVA8 FEATURES

1		Write a java Program to implement an AWT based calculator with basic operations.	[L6][CO5]	**[12M]**
2		What is AWT? Discuss about AWT controls.	[L1][CO5]	**[12M]**
3	a)	Differentiate between AWT and SWING.	[L4][CO5]	**[8M]**
	b)	State the features of swings in java.	[L1][CO5]	**[4M]**
4		List out the steps for creating simple user Registration form using java swing with an example.	[L3][CO5]	**[12M]**
5		Explain Stream API in java.	[L3][CO5]	**[12M]**
6		List and Explain Java Method References with an example.	[L6][CO5]	**[12M]**
7		What is double colon operator? Explain and how to use double colon operator?	[L5][CO5]	**[12M]**
8	a)	Explain Lambda Expression.	[L3][CO5]	**[8M]**
	b)	Discuss Functional Interface in java.	[L2][CO5]	**[4M]**
9		Explain the following methods in java. a) Default method b)Static method	[L3][CO5]	**[12M]**
10	a)	Explain java date and Time with an example.	[L6][CO5]	**[8M]**
	b)	Illustrate the operations on Streams.	[L5][CO5]	**[4M]**

Prepared by
Dr.M.A.Manivasagam
Department of CSE, SISTK.