



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

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QUESTION BANK (DESCRIPTIVE)

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

Year & Sem: II-B.Tech & II-Sem

Regulation: R19

**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? Write the suitable example?	[L3][CO1]	[6M]
	b)	State the Java Selection Statements? Give an example to each one.	[L2][CO1]	[6M]
3		With an example Explain about the Iteration Statements	[L3][CO1]	[12M]
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 Jump statements? Give an example for each of them.	[L2][CO1]	[6M]
	b)	Describe command line arguments? Write a Program to add two numbers using command line arguments.	[L6][CO1]	[6M]
6	a)	Define is a Data Type? Give the declaration of variable in Java. Write the Rules?	[L3][CO1]	[6M]
	b)	Justify the Byte Code? Discriminate states of Java Program execution?	[L3][CO1]	[6M]
7	a)	Define a Byte Code? Give the different states of Java Program execution?	[L5][CO1]	[6M]
	b)	Describe 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? Explain type of programs in Java.	[L3][CO1]	[6M]
9		Explain the Control Statements in Java with example.	[L3][CO1]	[12M]
10		Write a Java program to read and display the array elements.	[L3][CO1]	[12M]

UNIT-II 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.	[L2][CO2]	[6M]
	b)	Write a java program to illustrate Constructor Overloading.	[L5][CO2]	[6M]
4	a)	What are the varargs in java? Write the syntax and develop any program.	[L3][CO2]	[4M]
	b)	What is Inheritance? Explain types of inheritances.	[L2][CO2]	[8M]
5	a)	Write about the super keyword in java with example.	[L6][CO2]	[6M]
	b)	Distinguish Method Overriding and Method Overloading.	[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		Write 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?	[L3][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		Write a java program to create own exception for Negative Value Exception if the user enter negative value.	[L3][CO3]	[12M]
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)	Describe how to set the priority to threads? what are the different ranges.	[L3][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 StringBuffer 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-IV
GENERIC & 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		Write about various stream classes in java.	[L6][CO4]	[12M]
7		Discuss about the File Input Stream and File Output Stream in java with examples.	[L1][CO4]	[12M]
8	a)	How to create a file in java with example.	[L3][CO4]	[6M]
	b)	How to 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)	Difference between AWT and SWING?	[L4][CO5]	[8M]
	b)	State the features of swing 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 c) forEach() 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]

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