

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

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OUESTION BANK (DESCRIPTIVE)

Subject with Code: Object Oriented Programming through Java (20CS0506) **Course & Branch**: B.Tech & CSE,CIC&CSIT

Year & Sem: II & I **Regulation: R20**

UNIT-I THE JAVA LANGUAGE & INTRODUCTION OF OOP

1	a)	What is meant by paradigm? List the programming paradigms.	[L1][CO1]	[4M]
	b)	List and Explain Java Buzz Words?	[L2][CO1]	[8M]
2	a)	What is Byte Code? Analyze the different states of Java Program	[L4][CO1]	[6M]
		execution?		
	b)	Explain History and Evolution of Java?	[L2][CO1]	[6M]
3	a)	What is mean by OOP? Illustrate the Concepts of OOP?	[L3][CO2]	[6M]
	b)	Show what is varargs in java? Write the syntax and develop a	[L6][CO1]	[6M]
		Program showing the varargs usage.		
4	a)	Define Data Type?Discuss the data types available in Java.	[L2][CO1]	[6M]
	b)	Develop a Java program to read different data types using Scanner .	[L6][CO1]	[6M]
5	a)	Describe an identifier and give the rules to declare them.	[L1][CO1]	[4M]
	b)	How type casting implemented in java? Explain with an example.	[L2][CO1]	[4M]
	c)	State what is a variable? Give the declaration of variable in Java and	[L1][CO1]	[4M]
		specify the Rules to be followed over the same?		
6		DefineOperator?Discriminate the type of operators in Java with	[L5][CO1]	[12M]
		examples.		
7		Explain the Decision Making statements in Java with example.	[L2][CO1]	[12M]
8		Give example and Explain about the Iteration Statements.	[L2][CO1]	[12M]
9	a)	Give the Structure of Java program?	[L1][CO1]	[2M]
	b)	Create a java program to find the greatest of three numbers and give the	[L6][CO1]	[5M]
		procedure for compilation and run the same.		
	c)	Describe command line arguments? Develop a Java program to add two	[L6][CO1]	[5M]
		numbers using command line arguments.		
10	a)	Define an Array? Classify the types of arrays in Java.	[L4][CO1]	[6M]
	b)	Create a Java program to read and display the array elements.	[L6][CO1]	[6M]



UNIT-II INTRODUCING CLASSES

1	a)	Give the definition and syntax of Class, Method and Object?	[L1][CO2]	[6M]
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	b)	Create a java program to display "Hello! Java" using Class, Object	[L6][CO2]	[6M]
		and Method.	FT 435 G G G G	F#3 #3
2	a)	Define Constructor? Classify the types of Constructors in Java?	[L4][CO2]	[7M]
	b)	Write a java program to illustrate Constructor Overloading.	[L6][CO2]	[5M]
3	a)	Illustrate Garbage Collector in Java and explain the its behaviour	[L3][CO2]	[6M]
		when used.		
	b)	Differentiate between the usage of static, final keywords with	[L4][CO2]	[6M]
		example.		
4	a)	Show the application of final keyword with variable, method and class	[L1][CO2]	[9M]
		in detail with an example.		
	b)	Give the difference between final and finalize.	[L4][CO2]	[3M]
5		What is Inheritance? Explain types of inheritances.	[L2][CO2]	[12M]
6		Create and explain java program for the implementation of single,	[L6][CO2]	[12M]
		multi-level and hierarchical inheritance.		
7	a)	Describe about the super keyword in java with example.	[L2][CO2]	[6M]
	b)	Give the differences between Abstract class and Interface	[L4][CO2]	[6M]
8	a)	Distinguish Method Overriding and Method Overloading.	[L5][CO2]	[6M]
	b)	What is an abstract class? Discuss the cases to implement abstract	[L2][CO2]	[6M]
		class.		
9	a)	Recallwhat is package?Explain how to create user defined package in	[L2][CO2]	[6M]
		java with example program		
	b)	Writeajava programto findthefactorial valueofthegiven	[L6][CO2]	[6M]
		numberusinguser definedpackageconcept.		
10	a)	State what is an interface andthe rules to create an interface in java	[L1][CO2]	[6M]
		with example program		
	b)	Develop a java program to implement an interface using your own	[L6][CO2]	[6M]
		example program		
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UNIT-III EXCEPTION HANDLING & MULTITHREADED PROGRAMMING

1	a)	Summarize what is Java Exception and its Types	[L2][CO3]	[6M]
	b)	Illustrate abouttry, catch, and throw statements using java program.	[L3][CO3]	[6M]
2	a)	Discuss in detail Java exception hierarchy	[L2][CO3]	[6M]
	b)	Give the difference between checked and unchecked exceptions?	[L4][CO3]	[6M]
3	a)	Explain about Nested try statements with an example.	[L2][CO3]	[6M]
	b)	What are Java's Built-in Exception? Write the importance of finally	[L1][CO3]	[6M]
		block.		
4	a)	Show about creating your own Exception clauses	[L2][CO3]	[5M]
	b)	Develop a java program to create own exception for Negative Value	[L6][CO3]	[7M]
		Exception if the user enter negative value.		
5	a)	Statewhat is Multithreading? Illustrate the ways to create multiple	[L2][CO4]	[6M]
		threadsin java.		
	b)	Sketch and explain Thread Life Cycle.	[L3][CO4]	[6M]
6	a)	Discriminate what is Daemon Threads and it's implementation with an	[L5][CO4]	[6M]
		example.		
	b)	Apply join() method in multithreading java program to show its usage.	[L3][CO4]	[6M]
7	a)	Describe how to set the priority to threads? what are the different	[L2][CO4]	[6M]
		ranges.		
	b)	Write a java program to create two threads and executesimultaneously.	[L6][CO4]	[6M]
8	a)	Illustrate creating of Thread in Java.	[L2][CO4]	[5M]
	b)	Write a Java program that creates three threads. First thread displays	[L6][CO4]	[7M]
		—GoodMorning, every one second, the second thread displays Hello,		
		every two seconds andthe third thread displays Welcome every three		
		seconds.		
9	a)	What is synchronization? How many types? Explain in detail.	[L2][CO3]	[6M]
	b)	Write a java program to sort the given names into ascending order.	[L3][CO4]	[6M]
10	a)	Define String? Write the difference between String and String Buffer	[L4][CO4]	[6M]
		classes.		
	b)	Create a java program to check the given string is palindrome or not.	[L6][CO4]	[6M]



UNIT-IV GENERICS & INTRODUCING FILE HANDLING

1	a)	Define Generics. State the importance of generics in java	[L1][CO2]	[4M]
	b)	Demonstrate the implementation of Generics in javawith an example	[L2][CO2]	[8M]
		program.		
2		Illustrate General form of Generic class with an example.	[L2][CO2]	[12M]
3	a)	List and describe about collection class in java.	[L2][CO2]	[6M]
	b)	Implement the following concepts with java programs	[L4][CO6]	[6M]
		a) Array list b) TreeSet c) LinkedHashMap		
4	a)	Discuss in detail on collection interfaces and their methods	[L2][CO6]	[6M]
	b)	Apply the following interfaces with java programs	[L3][CO6]	[6M]
		a) The Collection Interface b) The Set c) The Map.Entry		
5		Create program illustrating following framework.	[L6][CO6]	[12M]
		a)Vector		
		b)Array List		
		c)Hash Table		
		d)Stack		
6		Illustratefile handling using File class.	[L3][CO4]	[12M]
7	a)	Develop a java Program to read from a file using FileReader class?	[L6][CO4]	[8M]
	b)	Explain File operations in java?	[L2][CO4]	[4M]
8		Describein detail about various stream classes in java.	[L2][CO4]	[12M]
9		Discuss about the File Input Stream and File Output Stream in java	[L2][CO4]	[12M]
		with examples.		
10	a)	Interpret how to create a file in java with example program.	[L3][CO4]	[6M]
	b)	Develop a java program to show Read and Write a file in java with an	[L6][CO4]	[6M]
		example program.	_	



UNIT-V INTRODUCING THE AWT & JAVA8 FEATURES

1		Develop a java Program to design Simple Registration page window	[L6][CO5]	[12M]
		using AWT Controls.		
2		Apply an AWT based calculator with basic operations using java.	[L3][CO5]	[12M]
3	a)	State the features of swing in java.	[L1][CO5]	[4M]
	b)	Difference between AWT andSWING?	[L4][CO5]	[8M]
4		Illustrate the steps for creating simple Login Page using javaswing with	[L3][CO5]	[12M]
		an example program.		
5		What is Swing? Discuss about Swing controls.	[L2][CO5]	[12M]
6	a)	State the importance of Lambda Expression with syntax	[L1][CO5]	[6M]
	b)	Develop a java program to pass multiple parameters with Lambda	[L6][CO5]	[6M]
		Expression		
7		List and Explain Java Method References with an example.	[L2][CO5]	[12M]
8		Explain the following methods injava.	[L2][CO5]	[12M]
		a) Default method		
		b) Static method		
		c) forEach()method		
9	a)	Illustrate with an example to explain the similarities for method reference	[L3][CO5]	[6M]
		operator and Lambda Expression		
	b)	DescribeReference to an instance method of an arbitrary object of a	[L2][CO5]	[6M]
		particular type		
10	a)	Interpret the usage of Date and Time API with an example program.	[L3][CO6]	[8M]
	b)	Discuss in detail the operations onStreams.	[L2][CO6]	[4M]

Prepared by

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