



SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY :: PUTTUR (AUTONOMOUS)
Siddharth Nagar, Narayanavanam Road – 517583
QUESTION BANK (DESCRIPTIVE)

Subject : OBJET ORIENTED PROGRAMMING (16CS509)

Course & Branch : B.Tech –CSE

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

Regulation : R16

BASICS OF JAVA LANGUAGE

1. a) Explain History and Evolution of Java? [5M]
b) Explain Java Buzz Words? [5M]
2. a) What is Conditional Operator? Give any suitable example? [5M]
b) What are Java Selection Statements? Give an example to each one. [5M]
3. Explain about the Iteration Statements with an example. [10M]
4. a) What is an Array? Explain types of arrays in Java. [5M]
b) What is an Operator? Explain type of operators in Java with examples. [5M]
5. What are Jump statements? Give an example for each of them. [10M]
6. a) What is a Data Type? How to declare variable in Java. Write the Rules? [5M]
b) What is Byte Code? What are the different states of Java Program execution? [5M]
7. a) Write a Java program to interchange the values without using third variable. [5M]
b) Write a Java program to use Bit-wise operators. [5M]
8. a) Explain Java security, Portability? [5M]
b) What is the Structure of Java? Explain type of programs in Java. [5M]
9. Explain about the Control Statements in Java with example. [10M]
10. Write a Java program to read and display the array elements. [10M]

UNIT-II

OOP CONCEPTS

1. a) What is mean by OOP? Explain OOP Concepts? [5M]
b) Write about Garbage Collector in Java. [5M]
2. a) What is a Class, Method and Object? Write the syntax to define these in java. [5M]
b) What is a Constructor? Explain types of Constructors in Java? Write a java program to find the Area of Circle using Constructor. [5M]
3. a) Discuss about the static, final keywords with an example. [5M]
b) What are command line arguments? Program to add two numbers using command

- line arguments. [5M]
4. a) What are the varargs in java? Write the syntax and develop any program. [5M]
 b) What is Inheritance? Explain types of inheritances. [5M]
 5. a) Discuss about the super keyword in java with example. [5M]
 b) Write the difference between Method Overriding and Method Overloading. [5M]
 6. Explain about the Dynamic Method Dispatch in Java with example program. [10M]
 7. What is an abstract class? Explain all the cases to implement abstract class. [10M]
 8. a) Write a java program to display “Hello! Java” using Class, Object and Method. [5M]
 b) Write a java program to implement inheritance concept. [5M]
 9. a) What is a package? How to create user defined package in java with example. [5M]
 b) What is an interface? Rules to create an interface in java with example. [5M]
 10. Write a java program to find the factorial value of the given number using user defined package concept. [10M]

UNIT – III
EXCEPTION HANDLING AND MULTITHREADING

1. a) What is an Exception? What are the Exception types? [5M]
 b) Explain try, catch, throw, throws and finally keywords? [5M]
2. a) Explain about Nested try statements with an example. [5M]
 b) What are Java’s Built-in Exception? Write the importance of finally block. [5M]
3. Write a java program to create own exception for NegativeValueException if the user enter negative value. [10M]
4. a) What is Multithreading? What are the ways to create multiple threads in java. [5M]
 b) Explain about Thread Life Cycle. [5M]
5. a) How to set the priority to threads? what are the different ranges. [5M]
 b) Write a java program to create two threads and execute simultaneously. [5M]
6. a) What is synchronization? How many types? Explain. [5M]
 b) Write a java program to implement interthread communication. [5M]
7. a) What are Daemon Threads? Explain with an example. [5M]
 b) Write a java program to implement join() method in multithreading. [5M]
8. a) What is a String? Explain different String declarations with an example. [5M]
 b) Write a java program to check the given string is palindrome or not. [5M]
9. a) Write the difference between String and StringBuffer classes. [5M]
 b) Write a java program to sort the given names into ascending order. [5M]
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 and the

third thread displays —Welcome! every three seconds [10M]

UNIT-IV
AWT PROGRAMMING

1. a) What is an Applet? Explain life cycle of an applet. [5M]
b) Write a java applet program to display Smiley Face on the Applet. [5M]
2. Explain about Delegation Event Model in Event Handling with example. [10M]
3. a) Write a java program to implement Mouse Events. [5M]
b) Discuss about Source, Event and Listeners in event handling. [5M]
4. Write a java program to develop Login Window using AWT. [10M]
5. a) List out any 10 AWT classes and their syntax. [5M]
b) What are Layout Managers in java? Explain. [5M]
6. a) Write a java program to implement Key events. [5M]
b) Explain about the AWT Menu design. [5M]
7. Write a java program to develop Notepad Application using AWT. [10M]
8. a) Difference between AWT and Swings? [5M]
b) Write a java swing program implement BorderLayout. [5M]
9. Write a java swing program to find the sum of two numbers. [10M]
10. Write a java swing program to find the factorial of the given number. [10M]

UNIT-V
NETWORKING AND JDBC CONNECTIVITY

1. a) Explain java networking? Explain the architecture of networking in java. [5M]
b) Discuss about socket programming in java. [5M]
2. Write a java program to implement simple client and server program. [10M]
3. a) What is JDBC? Explain architecture of JDBC. [5M]
b) Difference between JDBC and ODBC. [5M]
4. a) Explain the procedure to connect with the database in java. [5M]
b) Discuss about java.sql package with an example. [5M]
5. Write a java program to read and display data from database. [10M]
6. What are the different JDBC drivers explain with syntax. [10M]
7. a) Write a java JDBC program to display student details. [5M]
b) Explain the steps to connect with the database using JDBC. [5M]
8. Explain about PreparedStatement in JDBC. [10M]
9. Write a java swaing application to perform Login Authentication using JDBC. [10M]
10. a) What are the different JDBC Drivers used to connect with database. [5M]
b) Explain about JDBC-ODBC architecture with a neat diagram. [5M]