ST.JOSEPH'S COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)
CUDDALORE-1.
Question Bank
CLASS   : II BCA(Shift II)
SUBJECT : Programming in Sun Microstech Java

UNIT I

Five Marks:

1. Write a note on features of java.

2. Write a note on different data types in java.

3. Explain all the basic data types in java.

4. Explain different types of operators in java.

5. Define array. Explain its types with suitable example.

6. Write short notes on nested classes.

Ten Marks:

1. Explain the different control statement in java.

2. Discuss the concept of arrays in java.

3. Explain the different operators in java with example.

4. Explain throw to handle arrays in java with suitable example.

5. Explain the usage of do-while loop and write a program to generate Fibonacci series using it.

6. Explain the usage of switch-case statement and for-loop.

UNIT II

Five Marks:

1. What is your understanding about overloading? Give an example.

2. Write a note on abstract class.

3. Brief about constructors with an example.

4. What is your understanding about overriding? Give an example.

5. What is inheritance? Describe its types.

6. What is constructor? What are its special properties?

7. Explain method overriding with an example.

Ten Marks:

1. Explain the concept of Inheritance in java with example.

2. Write a note on the following.

   i) Overloading   ii) abstract classes.

3. Illustrate how a constructor can be overloaded by a simple program.

4. What is on abstract class? Explain.

UNIT III

Five Marks:

1. List out different Exception classes in java.

2. How will you create a user-defined exception? Give example.

3. What is an exception handling? Explain.

4. What is mean by extending interfaces? Give one example.

Ten Marks:

1. Discuss the concept of packages in java with example.

2. Explain different types of exception classes.

3. Write java program with packages to maintain the student marks and prepare the mark list.

4. How to create and import packages?

5. Briefly explain interaction among packages with a suitable example.

6. What is multilevel inheritance? Illustrate your answer by a sample program and also explain the concept of abstract class in a program.

UNIT IV

Five Marks:

1. Write down the methods in thread class.

2. List out the states in thread execution.

3. Write a short note on file stream class in java.

4. How does string class differ from string buffer class?

5. Briefly explain how multiple catch statement works.

Ten Marks:

1. Explain the concept of thread synchronization with example.

2. Discuss the different methods in file stream class.

3. Explain how to implement multithreading in java with example.

4. Write a java program for writing to a file and reading from the file.

5. Discuss input/output stream in java with an example.

6. Discuss multiple thread programming concepts.

7. Explain how to create a thread by runnable interfaces.

UNIT V

Five Marks:

1. Sketch out the different methods supported by StringBuffer class.

2. Write a note on vector class.

3. Differentiate between string and string builder class.

4. Write a short note on calendar class in java.

5. Describe vector class in details.

Ten Marks:

1. Write down the different methods in date and calendar classes.

2. Write down the different methods in vector and Random classes.

3. Explain any one predefined classes.

4. Briefly explain date class and calendar class.

GENERAL QUESTIONS

Five Marks:

1. Explain parameter passing methods in details with an example.

2. Differentiate java and c++ in details.