Set 1

|  |  |
| --- | --- |
| 1 | Object-oriented programming uses classes and objects. What are classes and what are objects? What is the relationship between classes and objects? |
| 2 | Explain carefully what null means in Java, and why this special value is necessary. |
| 3 | What are the three parts of a simple empty class explain with example? |
| 4 | What is a constructor? What is the purpose of a constructor in a class? |
| 5 | What is meant by the terms instance variable and instance method? |
| 6 | Explain what is meant by the terms subclass and superclass. |
| 7 | Explain the term polymorphism. |
| 8 | Java uses "garbage collection" for memory management. Explain what is meant here by garbage collection. What is the alternative to garbage collection? |
| 9 | Bring out the importance of inheritance with the help of an example? |
| 10 | When do we declare the members of the class as static explain with example? |
| 11 | When do we declare a method or class as final explain with example? |
| 12 | What is the advantage of using “this” keyword, explain? |
| 13 | Explain about inner classes with an example? |
| 15 | Explain the use of super() method in invoking a constructor? |
| 16 | When does a base class variable get hidden, Give reasons? |
| 17 | Explain with an example how we can access a hidden base class variable? |
| 18 | What is meant by instance block ? |
| 19 | What is meant by static block? |
| 20 | Explain when to use instance block , static block and constructor |
| 21 | What do you mean by PIE principles? |

Set 2

|  |  |
| --- | --- |
| 1 | What is JDK? |
| 2 | What is JRE? |
| 3 | What is JIT compiler? |
| 4 | What is Class Loader? |
| 5 | What is Byte Code Verifier? |
| 6 | What is a Compiler? |
| 7 | What is an Interpreter? |
| 8 | What is the difference between a Compiler and Interpreter? |
| 9 | What are the components of JVM? |
| 10 | What is Platform Independent? |
| 11 | How does Java achieve Platform independence? |
| 12 | How to access command line arguments? |
| 13 | What are the data types in Java and what are their sizes? |
| 14 | How do you declare an array in Java? |
| 15 | How do you find the length of an array in Java? |
| 16 | What are all the characteristic features of Java Programming language? |