Unit 3

Q. No.	Question/Answer	Marks			
1.	What is interface?	1			
Ans:	An interface is a reference type, similar to a class that can contain only constants, method signatures, default methods, static methods, and nested types.				
2.	What is the use of the clone() method?				
Ans	The clone() method is used to create a copy from an existing object.				
3.	class is the top of the class hierarchy tree.				
Ans:	Object class.				
4.	What is wrong with the below interface? And why? public interface Sample{ void print(){ System.out.println("In Print method"); }	2			
Ans:	It has a method implementation in it. In interface only default and static methods have implementations.				
5.	Is the below interface a valid or not? And why? public interface Example { }	2			
Ans:	Yes. Methods are not required. Empty interfaces can be used as types and to mark classes without requiring any particular method implementations.				
6.	What is the use of interface?	2			
Ans:	 When we want to specify the behavior of a particular data type, but not concerned about who implements its behavior. When we want to take advantage of multiple inheritance of type. 				
7.	Say True or False: i) In interface, method bodies exist only for default methods and static methods. ii) abstract class can have constructors and static methods. iii) interface cannot be instantiated.	3			

Ans:	i) True ii) True iii) True			
8.	Explain overriding toString() method with an example program.			
Ans:	<pre>public class Example5 { public static void main(String[] args) { Rect r1=new Rect(20,10);</pre>			
9.	Name 4 methods that are inherited from Object class.			
Ans:	equals(),toString(),hashCode() and clone().			
10.	Difference between interface and abstract class.			
Ans:	SI.No Interface Abstract class 1 Supports multiple inheritance. Does not support multiple inheritance. 2 Does not contain data member constuctor 3 Contains only incomplete (only signature)member. 4 Cannot have access modifiers by default everything is assumed as public. Contains only complete and incomplete member. Can Contain access modifiers the methods, properties.			

5	Cannot have static member.	Only complete member can be		
		static.		