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| **Q. No** | **Question** | | **(Marks)** | |
| **UNIT – III** | | | | |
|  | | What is the difference between equals() and == operator? | | 1 |
|  | | What is the output of the below code?  public class Test {  public static void main(String[] args) {  int a[]={1,2,3,4};  int b[]={1,2,3,4};  if(a==b)  System.out.println(“Sample”);  else  System.out.println(“Not Sample”);  }  } | | 1 |
|  | | Consider the below code: String s=new String();  Say True or False?  Will this statement create an instance of string with default Character in it? | | 1 |
|  | | Which is the companion class to string, whose objects contain strings that can be modified after they are created? | | 1 |
|  | | What does toString method do? | | 1 |
|  | | What is Inheritance? | | 1 |
|  | | What is “is-a” relationship mean? | | 1 |
|  | | What is polymorphism? | | 2 |
|  | | What is the output and why?  public class Example {  public static void main(String[] args) {  int a[5];  System.out.println(a.length);  }  } | | 2 |
|  | | Name two built-in methods in Arrays Class. | | 2 |
|  | | What is jagged array? Give an example. | | 2 |
|  | | What is utility class? And name one utility class. | | 2 |
|  | | What is the difference between StringBuffer and StringBuilder? | | 2 |
|  | | Predict output of the below program:  Class ExampleArr{  public class void main(String[] args){  int a[][]={{11,22},{33,44}};  int i;int j;  for(i=0;i<a.length;++i){  for(j=0j<a[i].length;++j){  System.out.print(a[i][j]);  }  System.out.println();  } | | 2 |
|  | | Say true or false:  In Java, array is a reference type.  In Java, arrays cannot be assigned.  Array elements are always on the heap. | | 3 |
|  | | Write a program to swap two strings without using third variable. | | 3 |
|  | | Write a program to capitalize each character in a word in a given string? | | 3 |
|  | | Write a method to Check whether the elements of an array are in ascending order. | | 4 |
|  | | List two differences between Method Overloading and Overriding. | | 4 |
|  | | State the errors in the following program.  class Test{  private final int a = 10;{  a = 20;  }  public test(int x){  System.out.println("ok");  }  public int sqr(){  System.out.println(a \* a);  }  public int foo(double x, double y){  return x + y;  }  public void bar(){  System.out.println(a.this);  }  } | | 6 |