|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No** | **Question** | | **(Marks)** | |
| **UNIT – II** | | | | |
|  | | What is the use of finally clause in Java? | | 1 |
|  | | Can the static members of the class be accessed without creating an object of a class? | | 1 |
|  | | Can we use the finally clause without a catch clause? | | 1 |
|  | | What is NullPointerException? | | 1 |
|  | | What is ordinal method in Enum class? | | 1 |
|  | | Can we create an instance of enum outside enum? | | 1 |
|  | | Can we use enum in switch case? | | 1 |
|  | | How to iterate over all the instances of a enum? | | 1 |
|  | | Say True or False:   * 1. The constructor of an enumeration is always private.   2. Are enums type-safe? | | 2 |
|  | | What is error and an exception in java? | | 2 |
|  | | What is checked and unchecked exceptions in java? | | 2 |
|  | | Why is better to use assertion compared to if statements as c check point? | | 2 |
|  | | What is enumerated type? Give an example. | | 2 |
|  | | List all the access modifiers in java? | | 2 |
|  | | What is the output?  public class Test {      public static void main(String[] args) {          try{              System.out.printf("1");              int data = 5 / 0;          }          catch(ArithmeticException e) {              System.out.printf("2");              System.exit(0);          }          finally{              System.out.printf("3");          }          System.out.printf("4");      }  } | | 2 |
|  | | Identify the bug if any in the code?  public class ExceptionExample{  public static void main(String[] args){  Scanner ip=new Scanner(System.in);  try{  int a[]={11,22,33,44};  int i;  i=ip.nextInt();  System.out.println(20/i);  System.out.println(a[i]);  }  catch(Exception e){  System.out.println(e);  System.out.println("inside catch1");  }  catch(ArrayIndexOutOfBoundsException e){  System.out.println(e);  System.out.println("inside catch2");  }  }  } | | 2 |
|  | | How to throw an exception? | | 3 |
|  | | Identify the bug in the below code, if any:  import java.util.\*;  import java.io.\*;  public class ExceptionEx{  public static void main(String[] args){  try{  System.out.println("Before call:fn1");  fn1();  System.out.println("After call:fn1");  }  catch(ArrayIndexOutOfBoundsException e){  System.out.println(e);  System.out.println("in catch array index in main");  }  catch(Exception e){  System.out.println(e);  System.out.println("in catch in exception");  }  System.out.println("In main");  }  private static void fn1(){  System.out.println("Before call:fn2");  fn2();  System.out.println("After call:fn2");  }  private static void fn2(){  try{  Scanner ip=new Scanner(System.in);  int a[]={11,22,33,44};  int i;  i=ip.nextInt();  System.out.println(20/i);  System.out.println(a[i]);  System.out.println("End of fn2");  }  catch(ArrayIndexOutOfBoundsException e){  System.out.println(e);  System.out.println("in catch array index in fn2");  }  }  } | | 3 |
|  | | List any two differences between class method and instance method. | | 4 |
|  | | What is exception? Explain all the exception handler components in java with an example. | | 5 |