**Unit 1**

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| Q. No. | **Question/Answer** | Marks |
|  | When does Constructor gets called? | 1 |
| Ans: | Is always called when an object is created. |  |
| 2. | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**to initialize the object. | 1 |
| Ans | The constructor. |  |
| 3. | Say true or false:  A variable name is allowed to begin with underscore. | 1 |
| Ans: | True |  |
| 4. | Say true or false:  Use of uninitialized variable causes compile time error in Java. | 1 |
| Ans: | True |  |
| 5. | What is the output of the below code and justify it.  public class Test  {  public static void main(String[] args)  {  int a=10;  a += 3.5;  System.out.println(a);    }  } | 2 |
| Ans: | Output is 13, as the expression a += 3.5; is set to (int)(a + 3.5) |  |
| 6. | List out all the primitive types in Java. | 2 |
| Ans: | byte,short,int,long,float,double,char,boolean |  |
| 7. | What is enumerated type? Give an example. | 2 |
| Ans: | **Enum in Java** is a data **type** which contains a fixed set of constants**.**  Example: enum Size { SMALL, MEDIUM, LARGE, EXTRA\_LARGE}; |  |
| 8. | What are the three fundamental features of an object-oriented programming language | 3 |
| Ans: | Object-oriented programming languages are designed with these features:   * Encapsulation * Inheritance * Polymorphism |  |
| 9. | What is the output? And Why?  class Test  {  private int data;  private Test ()  {  data = 5;  }  }  public class Sample  {  public static void main(String[] args)  {  Test t = new Test ();  System.out.println(t.data);  }  } | 2 |
| Ans: | A [private constructor](https://www.geeksforgeeks.org/private-constructors-and-singleton-classes-in-java/) cannot be used to initialize an object outside the class that it is defined within because it is no longer visible to the external class. |  |
| 10. | What are the different of ways by which the fields of an object are initialized? | 5 |
| Ans: | 1. Default initialization based on the type.  2. Initialization within the class.  3. Initialization block.  4. Initialize in the constructors.  5. Constructor calling another constructor. |  |