COMP 1409 Introduction to Software Development 1
Quiz #6 – Suggested Solution

Use the class definitions below to answer the questions that follow.

```
public class Date
{
     private int year;
     private int month;
     private int day;

     public Date()
     {
          year = 0;
          month = 0;
          day = 0;
     }

     public Date(int theYear, int theMonth, int theDay)
     {
          year = theYear;
          month = theMonth;
          day = theDay;
     }

     public String getDateAsString()
     {
          return year + "-" + month + "-" + day;
     }
} // end Date class
```

1. Below is the framework for a class called Baby that uses Date. Use the comments as a guide to what is expected.

```
public class Baby
{
   private String name;
   private Date birthdate;

   /**
    Baby constructor initializes its fields by calling the
   appropriate set methods.
   */
   public Baby( String babyName, Date dateOfBirth )
```

(4 points)

```
{
   setName(babyName);
   setBirthdate(dateOfBirth);
}

/**
 Sets baby name - ensures parameter is not null - if null sets
name to empty string
@param new baby name
*/
public void setName( String babyName ) (2 points)
{
   if(babyName != null) {
     name = babyName;
   else {
     name = "";
   }

}

 /**
 Sets birthdate - ensures parameter is not null - if null sets
birthdate by creating new object.
 */
 public void setBirthdate( Date dateOfBirth )(3 points)
 {
   if(dateOfBirth != null) {
      birthdate = dateOfBirth;
   }
   else {
      birthdate = new Date();
   }

 }

/**
@return date of birth as a string from Date class
*/
public String getDateString() (1 point)
{
   return birthdate.getDateAsString();
}

/**
@return baby's name
*/
public String getName() (1 point)
{
   return name;
```

```
   }

   /**
   @return date of birth
   */
   public Date getBirthdate() (1 point)
   {
      return birthdate;
   }

}
```