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**TMA03***.*

**Question 3**

**a)**

Scenario: Open University is looking to put it’s exams as downloadable java apps, the questions will be stored in a map, where the keys of the map are Integers, question numbers & the values are a sets of objects of class Question. The Question class will have attributes Q1, Q2, Q3, Q4 and answer.

**b)**

1) private Map <Integer, Questions> test ;

2) /\*\*

\* Constructor for objects of class Exam.

\*/

public Exam()

{

test = new TreeMap<>();

}

3) /\*\*

\* Method to populate the map using class Question

\*/

public void addData()

{

Questions aQuestion = new Questions();

test.put(1,aQuestion);

}

// question used when method addData is invoked.

public class Questions

{

// instance variables

private String quesion1;

private int quesionAnswer;

private String possAns1;

private String possAns2;

private String possAns3;

/\*\*

\* Constructor for objects of class Question

\*/

public Questions()

{

// initialise instance variables

quesion1 = "How do you say: Sir are you good ? in spanish";

possAns1 = "Como estas ";

possAns2 = "Como esta ";

possAns3 = "Hola buenas dias";

quesionAnswer = 2;

//Customer aCustomer = new Customer(name,address,area);

}

**c)**

Here