QUESTION 1

Given three sets P, Q and R such that:

P = {x : x is a natural number between 10 and 16},

Q = {y : y is a even number between 8 and 20} and

R = {7, 9, 11, 14, 18, 20}

   (i) Find the difference of two sets P and Q; (ii) Find Q – R; (iii) Find R – P; (iv) Find Q – P

QUESTION 2

In a class of 40 students, 30 read Mathematics and 20 read English. If each student reads at least one subject, find the number of students that's reads

   a. both subjects

   b. only Mathematics

   c. only English

QUESTION 3.

In a class of 36 students, 19 read biology, 16 read chemistry and 5 were not allowed to read both subjects, find how many students read

   i.   Both subjects
   ii.   Only one subject

QUESTION 4

In a class, 30 students read English, 25 read Mathematics, 5 read both subjects and 6 were not allowed to read both subjects. How many students are in the class?