REAL NUMBERS

CASE STUDY BASED (4 marks)

1. **Mira is very health conscious and avoids fast food, cakes, ice-creams etc. On her birthday she decided to serve fruits to her friend guests. She had 60 bananas and 36 apples which are to be distributed equally among all.**

(i) How many maximum guests Mira can invite? (1 M)

(ii) How many apples will each guest get? (1 M)

(iii) If Mira also decide to distribute 42 mangoes, how many maximum guests she can invite. Also, find the total number of fruits that each guest will get. (2 M)

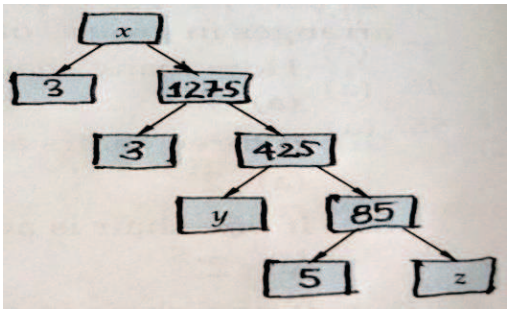
2. ****A seminar is being conducted by an educational organization, where the participants will be educators of different subjects. The number of participants in Hindi, English and Mathematics are 60, 84 and 108 respectively.**

(i) In each room the same number of participants are to be seated and all of them being in the same subject, hence find the maximum number of participants that can be accommodated in each room. (1 M)

(ii) Find the minimum number of rooms required during the event. (1 M)

(iii) Find the product of HCF and LCM of 60, 84 and 108. (2 M)

3. ****Observe the factor tree below and answer the questions:**



(i) Find the value of y. (1 M)

(ii) Find the value of z. (1 M)

(iii) Determine the value of x + y + z. (2 M)

CASE STUDY BASED: ANSWER KEY

1. (i) 12 (ii) 3 (iii) 6 ; 23

2. (i) 12 (ii) 5 (iii) 45360

3. (i) 5 (ii) 17 (iii) 3847