INDIAN SCHOOL AL WADI AL KABIR
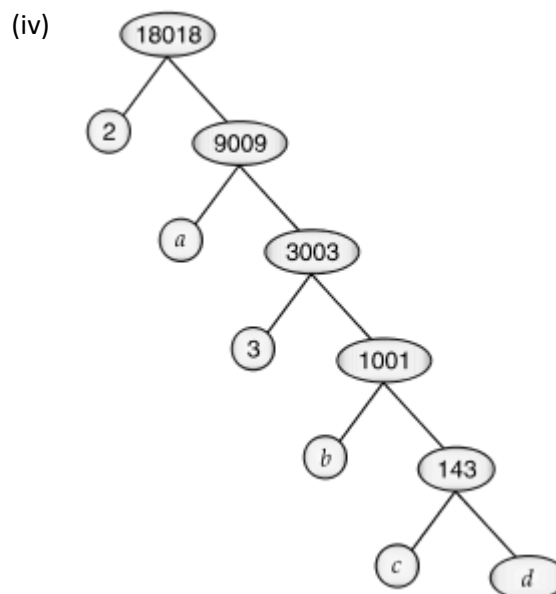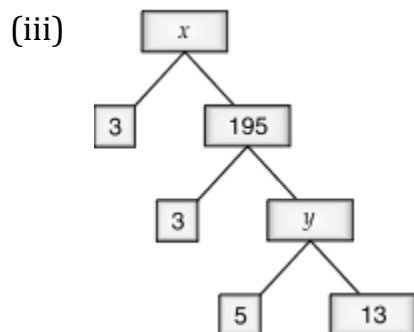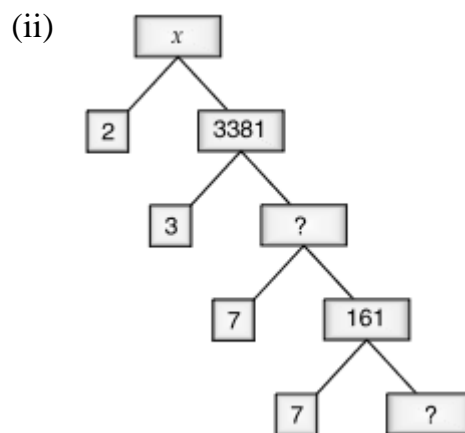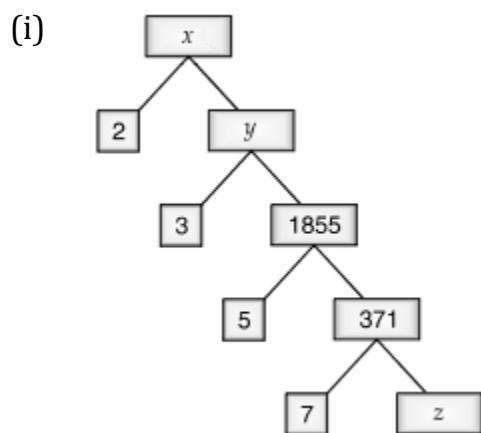
1. If a and b are positive integers, then HCF (a, b) x LCM (a, b) =
   (a) a x b   (b) a + b   (c) a – b   (d) a/b

2. If the HCF of two numbers is 1, then the two numbers are called
   (a) composite   (b) relatively prime or co-prime
   (c) perfect   (d) irrational numbers

3. The decimal expansion of $\dfrac{93}{1500}$ will be
   (a) terminating   (b) non-terminating   (c) non-terminating repeating
   (d) non-terminating non-repeating.

4. The HCF of 52 and 130 is
   (a) 52   (b) 130   (c) 26   (d) 13

5. For some integer q, every odd integer is of the form
   (a) q   (b) q + 1   (c) 2q   (d) none of these

6. For some integer q, every even integer is of the form
   (a) q   (b) q + 1   (c) 2q   (d) none of these

7. Euclid's division lemma state that for any positive integers a and b, there exist unique integers q and r such that a = bq + r where r must satisfy
   (a) $1 < r < b$ (b) $0 < r \leq b$ (c) $0 \leq r < b$ (d) $0 < r < b$

8. The HCF of smallest composite number and the smallest prime number is
   (a) 0   (b) 1   (c) 2   (d) 3

9. Given that HCF(1152, 1664) = 128 the LCM(1152, 1664) is
   (a) 14976   (b) 1664   (c) 1152   (d) none of these

10. Which one of the following rational number is a non-terminating decimal expansion:
    (a) $\dfrac{33}{50}$ (b) $\dfrac{66}{180}$ (c) $\dfrac{6}{15}$ (d) $\dfrac{41}{1000}$

11. L.C.M. of two co-prime numbers is always
    (a) product of numbers   (b) sum of numbers
    (c) difference of numbers   (d)none

12 If two positive integers a and b are written as $a = x^3y^2$ and $b = xy^3$; x, y are prime numbers, then HCF (a, b) is

(a) xy (b) xy^2 (c) x^3y^3 (d) x^2y^2

13 The decimal expansion of the rational number $\dfrac{14587}{1250}$ will terminate after:

(a) one decimal place (b) two decimal places
(c) three decimal places (d) four decimal places

14 The decimal expansion of the rational number $\dfrac{33}{2^2.5}$ will terminate after

(a) one decimal place (b) two decimal places
(c) three decimal places (d) more than 3 decimal places

15 Complete The Following Factor Tree

(i)

(ii)

(iii)

(iv)

Answers

1	a		2	b
3	a		4	c
5	d		6	c
7	c		8	c
9	a		10	b
11	a		12	b
13	d		14	b
15i	x =11130 , y =5565 , z = 53		15ii	x =6762 , y =1127 , z = 23
15iii	x =585 , y =65		15iv	a = 3, b = 7, c = 11, d = 13