NARENDRAPUR STUDY CENTRE

FM. 60
Time: 1hr15

MATHEMATICS

① Express as lowest term $2 \times 15 = 30$

(i) $\frac{36}{54}$ (ii) $\frac{38}{57}$ (iii) $\frac{51}{68}$

(iv) $\frac{45}{60}$ (v) $\frac{9 \times 7}{18 \times 7}$ (vi) $\frac{7 \times 8 \times 9}{14 \times 16 \times 3}$

(vii) $\frac{11 \times 13}{26 \times 11}$ (viii) $\frac{5 \times 7}{14 \times 10}$ (ix) $\frac{5 \times 7}{14 \times 5}$

(x) $\frac{7 \times 11 \times 5}{14 \times 22 \times 5}$ (xi) $\frac{4 \times 9 \times 3}{2 \times 3 \times 18}$

(xii) $\frac{7 \times 2 \times 3}{14 \times 4 \times 3}$ (xiii) $\frac{10 \times 3 \times 4}{5 \times 10 \times 3}$

(xiv) $\frac{7 \times 9 \times 3}{14 \times 3 \times 9}$ (xv) $\frac{10 \times 5 \times 2}{5 \times 15 \times 3}$

ANY - SIX SUMS $5 \times 6 = 30$

② (i) What least number being divided by 4, 6, 8 and 10 will leave the remainders 3, 5, 7 and 9 respectively. ?

(ii) Sum of two numbers is 120 and their HCF is 15. Find two possible numbers.

(iii) By what greatest number must 122 and 343 be divided to leave the remainder 3 in each case ?

(iv) Three bells toll at intervals of 16, 18 and 20 seconds respectively, beginning together. After what interval will they next toll together ?

(v) By what least number must 215 be multiplied so that the product may be a multiple of 516 ?

(vi) What number nearest to 100 is exactly divisible by 2, 4 and 6 respectively ?

(vii) The sum of the HCF and LCM of two numbers is 680 and LCM is 84 times the HCF. If one number is 56, find other number.

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