SUMMATIVE ASSESSMENT 1

MATHEMATICS

CLASS VI

ASSIGNMENT NO. 5

CHAPTER: FACTORS AND MULTIPLES

Choose the correct option in question no. 1, 2, 3 and 4

Q.1 Unique number (number which is neither prime nor composite) is

(a) 1 (b) 2 (c) 3 (d) 4

Q.2 The greatest prime number between 1 and 100 is

(a) 93 (b) 95 (c) 97 (d) 99

Q.3 The HCF of two consecutive even numbers is

(a) 2 (b) 3 (c) 4 (d) 5

Q.4 A number for which sum of all its factors is equal to twice the number is called

(a) Unique number (b) Composite no. (c) Perfect no. (d) None

Q.5 Write all factors of each of the following numbers.

(i) 60 (ii) 125 (iii) 729

Q.6 Write first five multiples of each of the following numbers

(i) 25 (ii) 35 (iii) 40

Q.7 Write all prime numbers between

(i) 10 and 50 (ii) 70 and 90

Q.8 Express each of the following numbers as the sum of two odd primes

(i) 36 (ii) 42 (iii) 84

Q.9 Express each of the following numbers as the sum of three odd primes

(i) 31 (ii) 35 (iii) 49

Q.10 Express each of the following as the sum of twin primes

(i) 36 (ii) 84

Q.11 Find prime factorization of each of the following numbers

(i) 216 (ii) 420 (iii) 468 (iv) 945 (v) 7325

Q.12 Write the smallest 4 digit number and express it as a product of primes.

Q.13 Write the largest 4 digit number and give its prime factorization.

Q.14 Which factors are not included in the prime factorization of a composite number.

(i) 144, 198 (ii) 81, 117 (iii) 225, 450 (iv) 150, 140, 210 (v) 84, 120, 138

Q.15 Determine the HCF of the following numbers by division method

(i) 300, 450 (ii) 399, 437 (iii) 1045, 1520

Q.16 Determine the LCM of the numbers given below

(i) 48, 60 (ii) 18, 17 (iii) 15, 30, 90 (iv) 56, 65, 85

Q.17 The LCM and HCF of two numbers are 180 and 6 respectively. If one of the numbers is 30, find the other number

Q.18 The HCF of two numbers is 16 and their product is 3072. Find their LCM