Q1. Define:

I. factor
II. Multiple. Give five examples of each.

Q2. Write down all the factors of

A. 20
B. 36
C. 60
D. 75

Q3. What are the prime numbers? Give ten examples

Q4. Answer the following

i. Write the smallest prime number.
ii. List all even prime numbers
iii. Write the smallest odd prime number

Q5. Find which of the following prime numbers are primes:

(i) 87 (ii) 89 (iii) 63 (iv) 91

Q6. Answer the following

A. Is there any counting number having no factor at all?
B. Find all the numbers having exactly one factor.
C. Find numbers between 1 and 100 having exactly three factors.

Q7.Test the divisibility of the following numbers by 2:

a) 2650
b) 69435
c) 59628
d) 789403
e) 357986
f) 367314

Q8. Test the divisibility of the following numbers by 4

(i) 618

(ii) 2314

(iii) 63712

(iv) 35056

(v) 946126

(vi) 810524

Q9. Test the divisibility of the following numbers by 5:

(i) 4965

(ii) 23590

(iii) 35208

(iv) 723405

(v) 124684

(vi) 438750

Q10. Test the divisibility of the following numbers by 11:

(i) 4334

(ii) 83721

(iii) 66311

(iv) 137269

(v) 901351

(vi) 8790322

Q11. Give the prime factorization of 252

Q12. Find the HCF of the numbers in each of the following, using the prime factorization method: 170, 238

Q13. Find the HCF of the numbers in each of the following, using the division method: 1045, 1520

Q14. Find the HCF and LCM of 693, 1078

Q15. Give the prime factorization of each of the following numbers: 945

Q16. Find the HCF of the numbers in each of the following, using the prime factorization method: 106,159,371

Q17. Find LCM of 16, 28, 40, 77

Q18. Which of the following are co-primes?

(a) 8, 12

(b) 9, 10

(c) 6, 8

(d) 15, 18

Q19.Which of the following is a composite number?

(a) 23

(b) 29

(c) 32

(d) None of these

Q20. The HCF of 144, 180 and 192 is

(a) 12

(b) 16

(c) 18

(d) 8

Q21. Which of the following are co-primes?

(a) 39, 91

(b) 161, 192

(c) 385, 462

(d) none of these

Q22. 289/391 when reduced to the lowest terms is

(a) 11/23

(b) 13/31

(c) 17/ 31

(d) 17/23

Q23. The greatest number which divides 134 and 167 leaving 2 as the remainder in each case is

(a) 14

(b) 17

(c) 19

(d) 33