Chapter 9

Ex-9.B

Q1: F I T B

i) Q=1 and R=2

ii) Q=3 and R=0

iii) Exact divisor of the numbers

iv) Itself

v) Itself

vi) 1

vii) Finite and Infinite

viii) Multiple

2. Write all the factors of:

i) 16

ans:- 1,2,4,8 and 16.

ii) 21

ans:- 1,3,7 and 21.

iii) 39

ans:- 1,3,13 and 39.

iv) 48

ans:- 1,2,3,4,6,8,12,24 and 48.

v) 64

ans:- 1,2,4,8,16,32 and 64.

vi) 98

ans:- 1,2,7,14,49 and 98.

3. Write first six multiples of:

i) 4

ans:- 4,8,12,16,20 and 24.

ii) 9

ans:- 9, 18, 27, 36, 45 and 54.

iii) 11

ans:- 11, 22, 33, 44, 55 and 66.

iv) 15

ans:- 15, 30, 45, 60, 75 and 90.

v) 18

ans:- 18, 36, 54, 72, 90 and 108.

vi) 16

ans:- 16, 32, 48, 64, 80 and 96.

A4. Since, $36 = 1\times36, 2\times18, 3\times12, (4\times9), 6\times6$

Clearly no's are 4 and 9 as $4\times9=36$ and $4+6=13$.

A5. Since, $48 = 1\times48, 2\times24, 3\times16, (4\times12)$

Clearly nos are 4 and 12 as $4\times12=48$ and $4+12=16$.

A6. Since, $54 = 1\times54, 2\times27, 3\times18, (6\times9)$

Clearly numbers are 6 and 9 as $6\times9=54$ and $9-6=3$.

A7. $7007 = 7000+7$

$= 7\times(1000+1) = 7\times1001$.

Clearly 7007 is divisible by 7

A8. $23,00,023 = 23,00,000 + 23$

$= 23\times(1,00,000+1) = 23\times1,00,001$

Clearly 23,00,023 is divisible by 23

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9.i) 11011 = 11,000 + 11

= 11 X (1000+1) = 11 X 1,001

Clearly 11,011 is divisible by 11

A.ii) 110011 = 110000 + 11

= 11 X (10,000+1) = 11X10,001

Clearly 110,011 is divisible by 11

A.iii) 11,00,011 = 1,10,00,000 + 11

= 11 X (10,00,000+11) = 11 X 10,00,000

Clearly 1,10,00,011 is divisible by 11

10.i) 1,608 = 1,600 + 8

~~= 8 X (200+1) = 8X108~~ = 8X(200+1) = 8X201

Clearly 1,608 is clearly divisible by 8

A.ii) ~~56,008~~ 56,008 = 56,000 + 8

= 8X(7000+1) = 8X7,001

Clearly 56,008 is divisible by 8

A.iii) 2,40,008 = 2,40,000 + 8

= 8X(30,000+1) = 8X30,001

Clearly 2,40,008 is divisible by 8.