

EX-96

① i)

352:-

The given no. = 352

digit at units place = 2

Hence the no. is divisible by 2.

ii)

523:-

The given no. = 523

digit at units place = 3

Hence the no. is not divisible by 2.

iii)

496:-

The given no. = 496.

Digit at units place = 6

Hence the no. is divisible by 2.

iv)

649:- The given no. = 649

Digit at units place = 9

Hence the no. is not divisible by 2.

②

i) 222:-

The given no. = 222

the no. formed by tens and unit digit is 22, which is not divisible by 4.

Hence, the no. is not divisible

i) 674

ii) 532 :-

The given no. = 532

The no. formed by ten's and unit digit is 32, which is divisible by 4.

Hence, the no. is ~~not~~ divisible by 4.

iii) 678 :-

The given no. formed by ten's and unit digit is 78, which is not divisible by 4.

Hence, the no. is not divisible by 4.

iv) 9232 :-

The given no. = 9232

The no. formed by ten's and unit digit is 32, which is divisible by 4.

④ ~~Find~~

③ i) 324 :-

The given no. = 324

The no. formed by hundred's, ten's and unit digit is 324, which is not divisible by 8.

Hence, 324 is not divisible by 8.

ii) 2536 :-

The given no. = 2536
The no. formed by hundred's
ten's and unit digit is 536, which
is divisible by 8.
Hence, 2536 is divisible by 8

iii) 92760

The given no. = 92760
The no. formed by hundred's
ten's and unit digit is 760, which
is divisible by 8.
Hence, 92760 is divisible by 8.

iv) 444320

The given no. = 444320
The no. formed by hundred's, ten's and
unit digit is 320, which is
divisible by 8.
Hence, 444320 is divisible by 8.

Q1) 221

The given no. = 221
For a no. to be divisible by
3, sum of digits must be divisible
by 3.
Sum of digits = $2+2+1=5$
Since 5 is not divisible by 3
Hence, 221 is not divisible by 3.

ii) 543 :-

The given no. = 543

for a no. to be divisible by 3,
sum of digits must be divisible by 3
sum of digits = $5+4+3=12$
since 12 is divisible by 3.
Hence, 543 is divisible by 3.

iii) 28492

The given no. = 28492
for a no. to be divisible by 3,
sum of digits = $2+8+4+9+2=25$
since 25 is not divisible by 3
Hence, 28492 is not divisible by 3.

iv) 92349

The given no. = 92349
for a number to be divisible by
3, sum of digits = $9+2+3+4+9=27$
since 27 is divisible by 3
Hence, 92349 is divisible by 3.

⑤) 1332

The given no = 1332
for a no. to be divisible by 9,
sum of digits must be divisible by
9.
sum of digits = $1+3+3+2=9$
since 9 is divisible by 9
Hence, 1332 is divisible by 9.

ii)

53247

The given no. = 53247

for a no. to be divisible by 9
sum of digits must be divisible
by 9

$$\text{sum of digits} = 5 + 3 + 2 + 4 + 7 = 21$$

Since 21 is not divisible by 9

Hence, 53247 is not divisible
by 9.

iii)

4968

The given no. = 4968

for a no. to be divisible by 9

sum of digits must be divisible by
9.

$$\text{sum of digits} = 4 + 9 + 6 + 8 = 27$$

Since 27 is not divisible by 9

Hence, 4968 is not divisible by
9.

⑥ i) 324 :-

The given no. = 324

$$\text{sum of digits} = 3 + 2 + 4 = 9$$

which is divisible by 3

Therefore 324 is divisible by 6.

ii)

2010 :-

The given no. = 2010

$$\text{sum of digits} = 2 + 0 + 1 + 0 = 3$$

which is divisible by 3

Therefore, 2010 is ~~not~~ divisible
by 6

iii) 33278:-

The given no. = 33278

Sum of digits = $3+3+2+7+8 = 23$

Unit digit is 8, which is odd

Therefore, 33278 is not divisible by 6.

iv) 15505

The given no. = 15505

Sum of digits = ~~1+5+5~~ $1+5+5+0+5 =$

16

which is divisible by 2

Therefore, 15505 is divisible by 6.

⑦ i) 5080

The given no. = 5080

For a no. to be divisible by 5,

unit's digit must be 0

Here, unit digit is 0

Therefore, 5080 is divisible by 5

ii) 6666

The given no. = 6666

For a no. to be divisible by 5,

unit's digit must be 0 or 5

Here, unit digit is 6

Therefore, 6666 is not divisible by 5.

iii)

755 :-

The given no. = 755

For a no. to be divisible by 5,
units digit must be 0 or 5

Here, unit digit is 5.

Therefore, 755 is divisible by 5.

iv)

9202

The given no. = 9202

For a no. to be divisible
by 5, units digit must be 0
or 5

Here, unit digit is 2

Therefore, 9202 is not divisible by 5.

Q1) 9990 :-

The given no. = 9990

For a no. to be divisible by
10

ii) 0 :-

The given no. = 0

For a no. to be divisible by 10,
units digit must be 0

Here, unit digit is 0

Therefore, 0 is not divisible by 10

iii) 847 :-

The given number = 847

For a no. to be divisible by 10,

unit's digit must be 0
Here, unit digit is 7
Therefore, ~~847~~ is not divisible by 10

iv) 8976

The given no. = 8976
For a no. to be divisible by 10

(v) i) 5918 :-

The given no. = 5918
If the difference of sum of its digit in odd places from left side and sum of digits in even places from left side is divisible by 11 then the no. is divisible by 11.

Sum of digits at odd places = $5 + 1 = 6$

Sum of digits at even places = $9 + 8 = 17$

Difference = $17 - 6 = 11$

Here, the difference is 11 which is divisible by 11
Hence, the no. is divisible by 11.

ii)

69717 :-

The given no. = 69717

If the difference of sum of its digit in odd places from left side and sum of digits in even places from left side is divisible by 11 then the number is divisible by 11

Sum of digits at odd places = $8 + 1 = 9$

Difference = $20 - 9 = 11$

Here, difference is 11 which is divisible by 11

Hence the no. is divisible by 11.

iii)

3882 :-

The given no. = 3882

If the difference of sum of its digit in odd places from left side and sum of digits in even places from left side is divisible by 11 then the number is divisible by 11

Sum of digits at even places = $8 + 2 = 10$

$$\text{Difference} = 11 - 10 = 1$$

Here, difference is 1, which is not divisible by 11

Hence, the no. is not divisible by 11

iv) 10857

The given no. = 10857

If the difference of sum of its digit in odd places from left side and sum of digits in even places from left side is divisible by 11

$$\text{sum of digits at odd places} = 1 + 8 + 7 = 16$$

$$\text{sum of digits at even places} = 0 + 5 = 5$$

$$\text{Difference} = 16 - 5 = 11$$

Hence, the no. is divisible by 11.

10) i) 960 :-

The given no. = 960

For a no. to be divisible by 15 it should be divisible by both 3 and 5.

$$\text{Sum of digits} = 9 + 6 + 0 = 15$$

Since 15 is divisible by 3

So, the no. is divisible by 3.

Here, unit digit is 0, so it is divisible by 5

Hence, the no. is divisible by 15

(ii) 8295 :-

The given no. = 8295

For a no. to be divisible by 15 it should be divisible by both 3 and 5

Sum of digits = $8 + 2 + 9 + 5 = 24$
since 24 is divisible by 3

Here, unit digit is 5, so it is divisible by 5

(iii) 16243

The given no. = 16243

For a no. to be ~~divis~~ divisible by 15 it should be divisible by both 3 and 5

Sum of digits = $1 + 6 + 2 + 4 + 3 = 16$
since 16 is not divisible by 3

Here, unit digit is 3, so it is not divisible by 5

Hence the no. is not divisible by 15