Chapter 01

Number System

1 Mark Questions

1. If $m7n5$ is exactly divided by 3, then the least value of $(m + n)$ is

(a) 0 (b) 2
(c) 3 (d) 4

2. If $3x7$ is exactly divisible by 3, then least value of x is

(a) 0 (b) 1
(c) 2 (d) 4

3. If $31z5$ is a multiple of 11, then what can be the value of z?

(a) 3 (b) 2.6
(c) 0 (d) 2

4. If $3A + 25 = B2$, then value of B is

(a) 3 (b) 7
(c) 8 (d) 6

5. What should be subtracted from 35875 to make it exactly divisible by 11?

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

6. If $21y5$ is a multiple of 9, then value of y is

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

7. If the division $1234x$ / 3 leaves a remainder of 1. What might be the least value of x?

(a) 0 (b) 2
(c) 1 (d) 5

8. If x is a digit of the number $66784x$ such that it is divisible by 9, find possible values of x.

(a) 5 (b) 7
(c) 1 (d) 3

9. Find the value of A and B.

$$\begin{array}{r} 2\,AB \\ +\,AB1 \\ \hline B18 \end{array}$$

(a) 7, 4 (b) 4, 6
(c) 4, 7 (d) 6, 4

10. 3- digit number 'pqr' is divisible by 3 if _____.

(a) $p + 2q + c$ is divisible by 3 (b) $p \times q \times r$ is divisible by 3
(c) $p + 2q \times r$ is divisible by 3 (d) $p + q + r$ is divisible by 3

2 Marks Questions

11. What is the original number, if the sum of the digits of a two-digit number is seven. By interchanging the digits is twenty seven more than the original number?

(a) 35 (b) 53
(c) 52 (d) 25

12. Solve the following and choose the correct option.

(i) If a number is divided by 5, remainder is 3. What should be the last digit of the number?

(ii) The next number of the sequence 1, 4, 9, 16, _____ .

	(i)	(ii)		(i)	(ii)
(a)	6	49	(b)	3	25
(c)	1	49	(d)	4	25

13. Choose the correct option.

(i) If the number abc is divisible by 11, then find the value of $(a - b + c)$?

(ii) If $(3A) \times A = 17A$ value of A is _____.

	(i)	(ii)		(i)	(ii)
(a)	6	2	(b)	0	5
(c)	11	3	(d)	5	2

14. True and False statement.

(i) If xy is a 2-digit number, then $xy = x + 10y$.

(ii) The sum of a two digits number and the number formed by reversing its digits is divisible by 11.

(iii) Any 4 digit number $abcd$ will be divisible by 3 or 9, if the sum of the digits is divisible by 3 or 9

Codes

	(i)	(ii)	(iii)		(i)	(ii)	(iii)
(a)	T	T	F	(b)	F	T	F
(c)	T	F	T	(d)	F	T	T

15. Solve the following and choose the correct option

(i)
$$\begin{array}{r} 1\ 2\ A \\ +\ 6\ A\ B \\ \hline A\ 0\ 9 \end{array}$$

(ii)
$$\begin{array}{r} 7\ A\ B \\ -\ A\ B\ 7 \\ \hline B\ B\ 5 \end{array}$$

	(i)	(ii)
(a)	$A = 8, B = 1$	$A = 5, B = 2$
(b)	$A = 6, B = 3$	$A = 7, B = 2$
(c)	$A = 7, B = 8$	$A = 2, B = 7$
(d)	$A = 1, B = 8$	$A = 2, B = 5$

Answers

1.	(c)	**2**	(c)	**3.**	(a)	**4.**	(d)	**5.**	(d)	**6.**	(c)	**7.**	(a)	**8.**	(a)	**9.**	(c)	**10.**	(d)
11.	(d)	**12.**	(b)	**13.**	(b)	**14.**	(d)	**15.**	(a)										