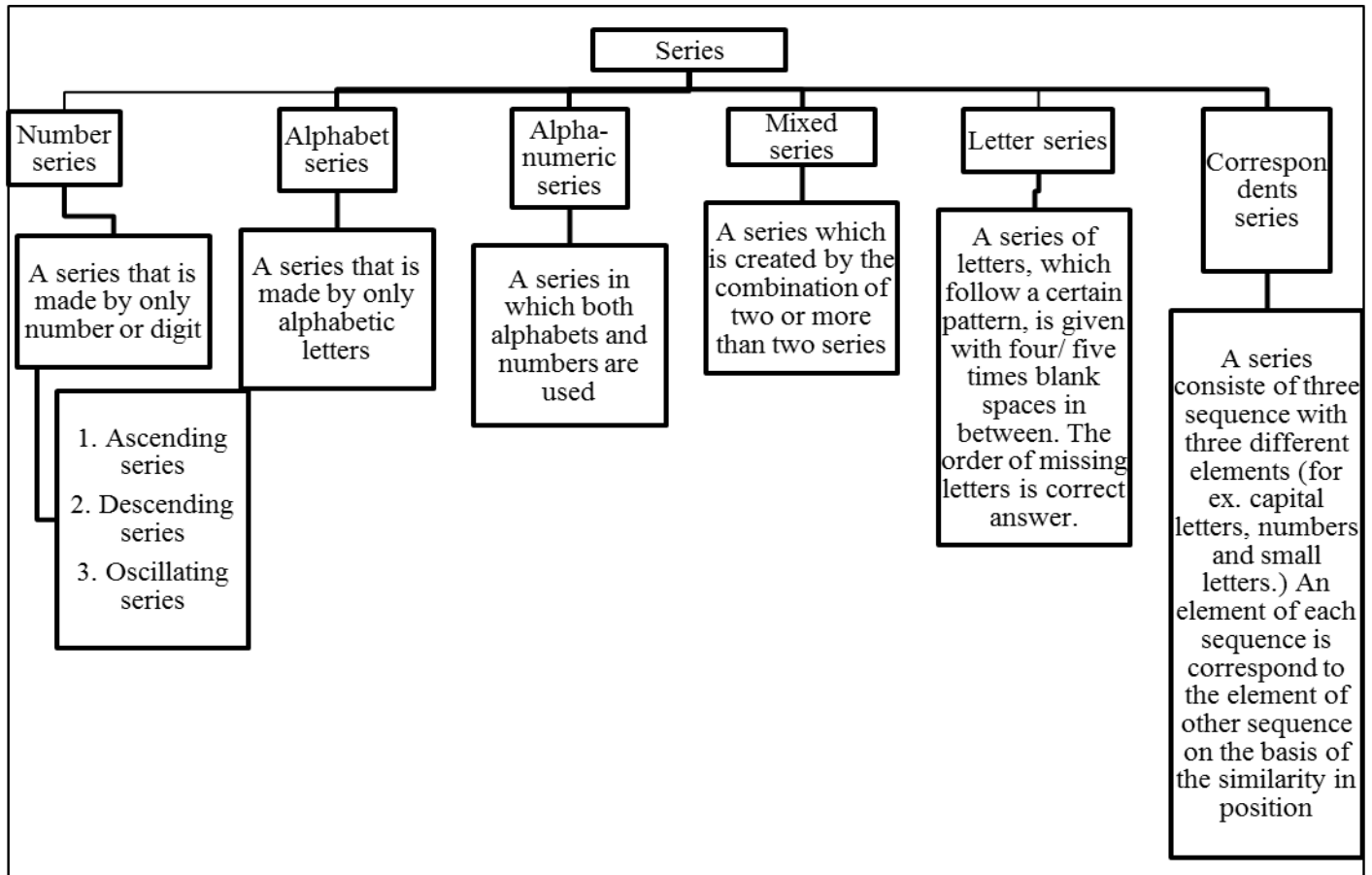


A series is a sequence of numbers/alphabetical letters or both which follow a particular rule. Each element of

series is called 'term'. We have to analyse the pattern and find the missing term or next term to continue the pattern.

**Types of series are explained in the following chart:**



In number series, relationship between the terms is of any kind. For example.

- (1) Consecutive even numbers
- (2) Consecutive odd numbers
- (3) Consecutive prime numbers
- (4) Square of numbers
- (5) Cubes of numbers
- (6) Square root of numbers
- (7) Omission of certain number of letter in any consecutive' order
- (8) Addition /subtraction/ multiplication/ division by some number (For Ex. A.P & G.P) or any other relation.

### TYPES OF QUESTIONS:

- (I) Complete the series
- (II) Find Missing number of the series
- (III) Find Wrong number of the series

### EXAMPLES ON NUMBER SERIES

#### (I) Complete the series

**EXAMPLE 1.** Which of the following is the next term of series given below?

4, 6, 9, 13

- (a) 17    (b) 18    (c) 19    (d) 20

**Sol.** (b) 4    6    9    13    18 Correct answer

+2    +3    +4    +5

**EXAMPLE 2.** Choose the next term of series given below. 64, 32, 16, 8, ?

- (a) 0    (b) 1    (c) 2    (d) 4

**Sol.** (d) Each number is half of its previous number.

#### (II) To find the missing number of series:

**EXAMPLE 3.** What will come in place of question mark in the following series?

79, 87, ?, 89, 83

- (a) 80    (b) 81    (c) 82    (d) 88

**Sol.** (b) 79    87    81    89    83

+8    -6    +8    -6

**EXAMPLE 4.** What will come in place of question mark in the following series?

37, 41, ?, 47, 53

- (a) 42    (b) 43    (c) 46    (d) 44

**Sol.** (b) Consecutive prime numbers.

**EXAMPLE 5.** What will come in place of question mark in the following series?

21, 34, ?, 89, 144

- (a) 43      (b) 55      (c) 64      (d) 71

**Sol.** (b) Each number is the sum of the two preceding numbers.

$$21 + 34 = 55$$

$$34 + 55 = 89$$

$$55 + 89 = 144$$

**(III) To find the wrong term in the series:**

**EXAMPLE 6.** Find the wrong term in the series 3, 8, 15, 24, 34, 48, 63.

- (a) 15      (b) 15      (c) 34      (d) 63

**Sol.** (c)  $2^2 - 1, 3^2 - 1, 4^2 - 1, 5^2 - 1, 6^2 - 1$

### EXAMPLES ON ALPHABETIC SERIES

**EXAMPLE 7.** What will come in place of question mark in the following series?

G, H, J, M, ?

- (a) R      (b) S      (c) Q      (d) P

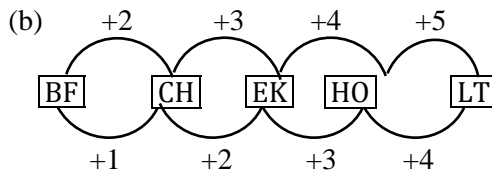
**Sol.** (c) G   H      J      M      Q

+1    +2    +3    +4

**EXAMPLE 8.** What will come in place of question mark in the following series? BF, CH, ? HO, LT

- (a) FG      (b) EK      (c) CE      (d) FJ

**Sol.**



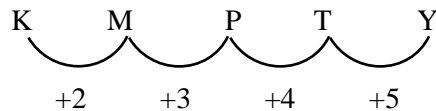
### EXAMPLES ON ALPHA-NUMERIC SERIES

**EXAMPLE 9.** What will come in place of question mark in the following series?

K 1, M 3, P 5, T 7, ?

- (a) Y 9      (b) Y 11      (c) V 9      (d) V 11

**Sol.** (a) Alphabets follow the sequence



And numbers are increasing by 2

### EXAMPLES ON MIXED SERIES

**EXAMPLE 10.** Complete the series

Z, L, X, J, V, H, T, F, \_\_, \_\_

- (a) D, R      (b) R, D      (c) D, D      (d) R, R

**Sol.** (b) The given sequence consists of two series

(i) Z, X, V, T, \_\_

(ii) L, J, H, F, \_\_ Both consisting of alternate letters in the reverse order.  
∴ Next term of (i) series = R, and  
Next term of (ii) series = D

**EXAMPLE 11.** What will come in place of question mark in the following series?

7, 5, 26, 17, 63, 37, 124, 65, ?, ?

(a) 101, 215 (b) 101, 101

(c) 215, 101 (d) 215, 215

**Sol.** (c) The given series consists of two series

(i) 7, 26, 63, 124, ...

(ii) 5, 17, 37, 65, ...

In the first series,

$$7 = 2^3 - 1, 26 = 3^3 - 1, 63 = 4^3 - 1, 124 = 5^3 - 1, \therefore 6^3 - 1 = 215$$

and in the second series.

$$5 = 2^2 + 1, 17 = 4^2 + 1,$$

$$37 = 6^2 + 1, 65 = 8^2 + 1,$$

$$\therefore 10^2 + 1 = 101$$

### EXAMPLES ON LETTER SERIES

**EXAMPLE 12.** Which sequence of letters when placed at the blanks one after another will complete the given letter series?

b a a b - a b a - b b a - -

(a) bbaa (b) aaaa (c) abab (d) baba

**Sol.** (d) b a a b b a / b aa b a/ba.

Join Us on FB :

For English – [Examsdaily](http://www.examsdaily.in)

For Tamil – [Examsdaily Tamil](http://www.examsdaily.in)



## Coding-Decoding Exercise Questions, Answers & Explanation

For  WhatsApp Group - [Click Here](#)