

- An Analogy is a comparison of two things to show their similarities. An analogy explains one thing in terms of another to highlight the ways in which they are alike.
- In questions based on analogy, a particular relationship between words/letters/numbers is given and another similar relationship has to be identified from the alternatives provided.

Analogy may be broadly classified into the following types:

### **Word Analogy**

In such type of questions, two words related to each other is a particular manner are given, which are followed by another word and a question mark '?'. The Candidate is required to identify the relationship between the first two words and then choose that word from the given alternatives which is related to the third word in the same way as first two words are related.

Here, some relationships are given, which are useful for solving questions based on word analogy.

Gangtok
Kolkata
Panaji
Chennai
Bhubaneshwar
Patna

Quantity	Unit	Quantity	Unit			
Power	Watt	Time	Second			
Pressure	Pascal	Mass	Kilogram			
Current	Ampere	Work	Joule			
Area	Hectare	Volume	Litre			
Force	Newton					

Word	Synonym	Word	Synonym		
Assign	Allot	Dissipate	Squander		
Substitute	Replace	Brim	Edge		
Abduct	Kidnap	Dearth	Scarcity		
Haughty	Proud				

Word	Antonym	Word	Antonym			
Robust	Weak	Gentle	Harsh			
Deep	Shallow	Notice	Ignore			
Chaos	Peace	Lethargy	Alertness			
Cruel	Kind	Mourn	Rejoice			

The relationship is word analogy can also be of following types.

- Country and Currency
- Occupation and working place
- Game and place of playing
- · Animal and Sound
- · Worker and tool
- Individual and its dwelling etc.

- **Example 1** Mathematics is related to Numbers in the same way as History is related to (b) Events (c) Dates (a) Wars **Sol.** (b) As, Mathematics is the theory of numbers in the same way History is the theory of past events.
- **Example 2** Complete the second pair by choosing the appropriate alternative. Teacher: School:: Nurse:?

(a) Doctor

(b) Patients

(c) Hospital

(d) Medicine

**Sol.** (c) As, Teacher teaches in the School, in the same way Nurse looks after patients in Hospital.

## **Number Analogy**

- In this type of analogy, numbers are given in a pair following a particular relationship. The candidates are required to find out the relationship among them to complete the incomplete pair.
- The relationship of numbers can be based upon the following.

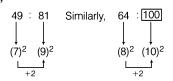
Addition and Subtraction of numbers. Multiplication and Division of numbers.

Even and odd numbers.

Square/Square root and cube/cube roots of numbers.

**Example 3** Complete the second pair by choosing the appropriate alternative.

Sol. (c) As,



### Letter Analogy

• Questions in this type are based on English letters or group of letters. Candidates are required to find the relationship between the letters or group of letters in a pair and the

- complete the incomplete pair by choosing the correct letter or group of letters from the given alternatives.
- The relationship between letters can be based upon the following.

Addition and Subtraction in position of letters.

Reverse order or opposite pair of letters.

Vowels and consonants.

Here, following table is showing letters' position in English alphabetical series.

Forward	Alphabet	Backward
1	Α	26
2	В	25
3	С	24
4	D	23
5	Е	22
6	F	21
7	G	20
8	H	19
9	I	18
10	J	17
11	K	16
12	L	15
13	M	14
14	N	13
15	0	12
16	P	11
17	Q	10
18	R	9
19	S	8
20	T	7
21	U	6
22	V	5
23	W	4
24	X	3
25	Y	2
26	Z	1

**Example 4** Complete the second pair by choosing the appropriate alternative.

BOOD: ERTG:: ANPC:?

Sol. (a) As, 
$$\begin{array}{cccc} & B & O & Q & D \\ & & & & & \\ & & +3 & & +3 & +3 \\ & & E & R & T & G \end{array}$$

Hence, DQSF will be the required answer.

**Example 5** Complete the second pair by choosing the appropriate alternative

N:14::P:?

- (a) 16
- (b) 15
- (c) 10
- (d) 18

**Sol.** (a) The positional value of N in English alphabetical order is 14, similarly the positional value of P is 16.

# **Practice Exercise**

- **1.** Neck is related to Tie in the same way as Waist is related to
  - (a) Belt
- (b) Watch
- (c) Shirt
- (d) Pants
- **2**. Doctor is related to Patient, in the same way Lawyer is related to
  - (a) Criminal
- (b) Judge
- (c) Client
- (d) Customer
- **3**. Bouquet is related to Flowers in the same way as Sentence is related to
  - (a) Words
- (b) Letters
- (c) Paragraph
- (d) Noun
- **4.** 'Cyclone' is related to 'Anti-cyclone' in the same way as Flood is related to
  - (a) Devastation
- (b) Havoc
- (c) river
- (d) Drought
- **5.** Tree is related to Sapling in the same way as Horse is related to
  - (a) Pony
- (b) Mule
- (c) Cub
- (d) Foal

**Directions** (Q. Nos. 6-10) *In each of the following* questions. Choose the word which will replace the question mark(?)

- **6.** Thermometer : Temperature : : Hygrometer : ?
  - (a) Pressure
- (b) Density
- (c) Stress
- (d) Humidity

- **7.** Jewellery : Gold : : Furniture : ?
  - (a) Wood (b) Paint
- (c) Table
- (d) Tree
- **8.** Man : House : : Beast : ?
  - (a) Cave
    - (b) Den
- (c) Cage
- (d) House
- **9.** Bird: Feather:: Fish:?
  - (a) Gill
    - (b) Tail
- (c) Fin
- (d) Scale
- 10. Maharashtra: India:: Texas:?
  - (a) Canada (b) Mexico (c) Brazil

**Directions** (Q. Nos. 11-25) *In each of the following* questions. Select the related letter/ number from the given alternatives.

- **11.** 4:64::5:?
  - (a) 121
- - (b) 125
- (c) 144

(c) 49

(c) 300

(c) 216

(d) 100

(d) 56

(d) 108

- **12.** 5 : 36 : : 6 : ?
  - (a) 48 (b) 50
- **13**. 24 : 60 : : 120 : ?
  - (a) 160 (b) 220
- **14.** 27 : 125 : : 64 : ?
  - (a) 517 (b) 62
- **15.** 10 : 101 : : 20 : ?
  - (b) 400
- (d) 273
- (a) 200
- (d) 401 (c) 201
- **16.** MAT : NCW : : APE : ?
  - (a) CRH
- (b) BRH
- (c) BSG
- (d) BSH

- **17.** BOOD : ERTG : : ANPC :?
  - (a) DQSF (b) FSHU (c) SHFU (d) DSQF
- **18.** TALE : LATE : : FACE : ?
  - (a) CAFG (b) CAFE (c) FEAC (d) CEFA
- **19.** AZBY : CXWD : : EVUF :?
  - (a) GTHS (b) GTSH (c) GSHT (d) GSPH
- **20.** MINIMUM: MUMINIM:: MAXIMUM:?
  - (a) IXAMUMM
- (b) MAMXIMI
- (c) MUMIXAM
- (d) AMXIMUM
- 21. WINNER: IWNNRE:: LOOSER:?
  - (a) OOSERL
- (b) OLSORE
- (c) LSOERO
- (d) LROEOS

- **22.** CAD : FDG : : XZW : ?
  - (a) IQJ
- (b) CAD
- (c) ZBY
- (d) UWT
- **23.** NEWS: 14.5.23.19:: PAPER:?
  - (a) 16,5,16,1,18
  - (b) 18,5,16,1,16
  - (c) 16,1,16,5,18
  - (d) 32,2,32,10,36
- **24.** FILM: 40:: HOTEL:?
  - (a) 60
- (b) 45
- (c) 80
- (d) 30
- 25. F: 216:: L:?
  - (a) 1728 (b) 1700
- (c) 1600
- (d) 1723

### **Answers**

1	(a)	2	(c)	3	(a)	4	(d)	5	(d)	6	(d)	7	(a)	8	(b)	9	(d)	10	(d)
11	(b)	12	(c)	13	(c)	14	(c)	15	(d)	16	(b)	17	(a)	18	(b)	19	(b)	20	(c)
21	(b)	22	(d)	23	(c)	24	(a)	25	(a)										

### **Hints & Solutions**

- **1.** (a) As, tie is worn in the neck. Similarly, Belt is Worn on the waist.
- **2.** (c) Doctor deals with patients. Similarly, Lawyer deals with clients.
- **3.** (a) Bouquet is a bunch or group of Flowers. In the same way a sentence is made up of Words.
- **4.** (d) As, 'Cyclone' is opposite of 'Anti-Cyclone'. Similarly, 'Flood' is opposite of 'Drought'.
- **5.** (d) Second is the young one of first. Hence, the young one of Horse is called as Foal.
- **6.** (d) As Thermometer is used to measure Temperature in the same way Hygrometer is used to measure Humidity.
- **7.** (a) As, Gold is used to make Jewellary. Similarly, Wood is used to make Furniture.
- **8.** (b) As, Man lives in House. Similarly, Beast live in Den.
- **9.** (d) The body of Bird remains covered with Feathers. Similarly the body of Fish remains covered with Scales.
- **10.** (d) As, Maharashtra is one of the states in India, in the same way, Texas inone of the States in USA.

**11.** (b) Second is the cube of first number

$$4^3 \longrightarrow 64$$

 $5^3 \longrightarrow 125$ . Hence.

**12.** (c) As, 
$$(5+1)^2 = (6)^2 = 36$$

Similarly,  $(6+1)^2 = (7)^2 = 49$ 

**13.** (c) As, 
$$24 \times \frac{5}{2} = 60$$
. Similarly,  $120 \times \frac{5}{2} = 300$ .

**14.** (c) 27:125::64:216

27 : 125 :: 64 : 216  

$$(3)^3$$
  $(5)^3$   $(4)^3$   $(6)^3$   
 $+2$   $+2$ 

**15.** (d) As  $(10)^2 + 1 = 100 + 1 \Rightarrow 101$ 

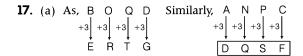
Similarly  $(20)^2 + 1 = 400 + 1 \Rightarrow 401$ 

**16.** (b) As,

$$\begin{array}{c|c}
M & A \\
+1 & +2 & +3 \\
N & C & W
\end{array}$$

Similarly,

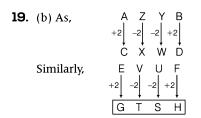


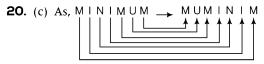


**18.** (b) As, TALE → LATE

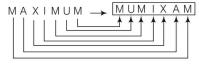
The first and the third letters have beeninterchanged.

Therefore,  $FACE \longrightarrow CAFE$ 

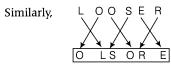




Similarly,



**21.** (b) As, W | N N E R



- **22.** (d) CAD: FDH::XZW: UWT Pairs of opposite letters
- **23.** (c) Each letter assigned its position from left. So, PAPER  $\rightarrow$  16,1,16,5,18
- **24.** (a) As, F I L M 6+9+12+13=40, Similarly, H O T E L  $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ 8+15+20+5+12=60
- **25.** (a) As,  $F \longrightarrow (6)^3 = 216$  (Since, positional value of F is 6) Similarly,  $L \to (12)^3 = 1728$  (Since, positional value of L is 12)