

TATA CONSULTANCY SERVICES

# REASONING ABILITY

Ahmedabad Technical Faculties TDC Kochi

# IMPORTANT TOPICS

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- Coding and decoding
- Series and patterns
- Problem solving
- Figure analogy and facial analogies
- Decision making
- Syllogism
- Propositional reasoning
- Visual reasoning

# CODING-DECODING

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- Coding and Decoding
- Letter Coding
- Letter Number Coding

## Order of the English Alphabet

| Forward<br>order<br>position | Letters | Backward<br>order<br>position | Forward<br>order<br>position | Letters | Backward<br>order<br>position |
|------------------------------|---------|-------------------------------|------------------------------|---------|-------------------------------|
| 1                            | A       | 26                            | 14                           | N       | 13                            |
| 2                            | B       | 25                            | 15                           | O       | 12                            |
| 3                            | C       | 24                            | 16                           | P       | 11                            |
| 4                            | D       | 23                            | 17                           | Q       | 10                            |
| 5                            | E       | 22                            | 18                           | R       | 9                             |
| 6                            | F       | 21                            | 19                           | S       | 8                             |
| 7                            | G       | 20                            | 20                           | T       | 7                             |
| 8                            | H       | 19                            | 21                           | U       | 6                             |
| 9                            | I       | 18                            | 22                           | V       | 5                             |
| 10                           | J       | 17                            | 23                           | W       | 4                             |
| 11                           | K       | 16                            | 24                           | X       | 3                             |
| 12                           | L       | 15                            | 25                           | Y       | 2                             |
| 13                           | M       | 14                            | 26                           | Z       | 1                             |

An ea o Ad Ae membe A the alphabe n mbe A po i on

# EJOTY

# EXAMPLE 1

---

□□□□r □□□□□y\$y□□□□y\$y20181141721912□t□□y□□□□□yw□y□y□□□□y□sr

- 7597356
- 165181612524
- 161514131211
- 161718191112
- □□□y□t□□s□

# SOLUTION

---

To□□□R□□□A□□□N□□□Q□□□d□□□L□□□□□□□□□□□□□□

Simila A□A□

P□□□E□□□R□□□P□□□L□□□E□□□X□□□□□□□□□□□□

# EXAMPLE 2

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Supports the following Acicola API endpoints:

- TIGER
- QDFHS
- Find
- FISH
- illbe
- Aimen
- hewame
- code

□ GERH

□ GRHE

□ GREH

□ GHRE

□ GEHR

# SOLUTION

---

T I G E R

R E G I T

-1 | -1 | -1 | -1 | -1 |

Q D F H S

F I S H

H S I F

-1 | -1 | -1 | -1 |

G R H E

# EXAMPLE 3

---

inceAincodePICNICienEGPAKNndZEBRAienCPDCB  
WhatisthecodefoAPIGEON?

RIGIDQL

LQDIGR

NKEGMP

PMGEKN

# SOLUTION

---

P I C N I C  
C I N C I P

+2 | -2 | +2 | -2 | +2 | -2 |

E G P A K N

P I G E O N  
N O E G I P

+2 | -2 | +2 | -2 | +2 | -2 |

P M G E K N

# EXAMPLE 4

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In a code A in code COMPUTER is A seen as PMOCRETU who is DECRYPT A seen in  
the code

□ ICEDREHP

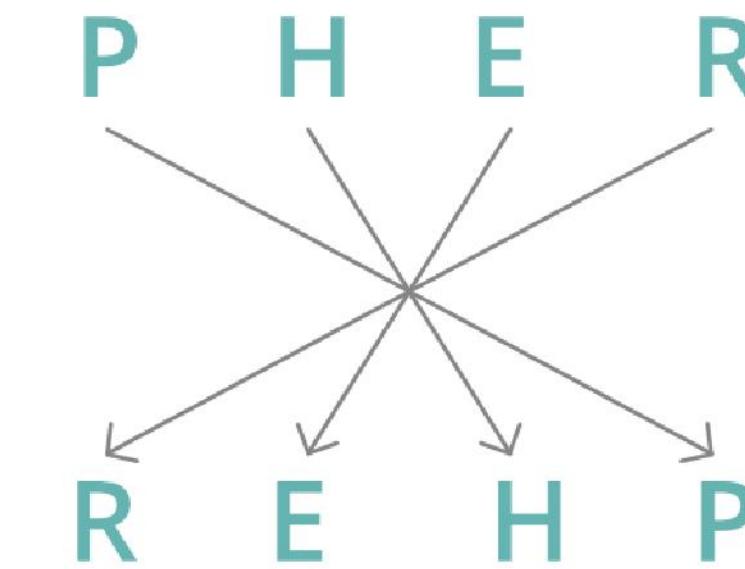
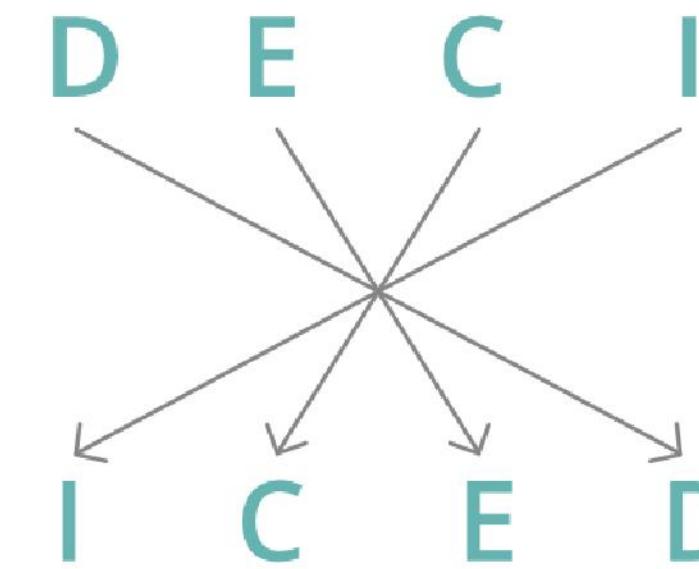
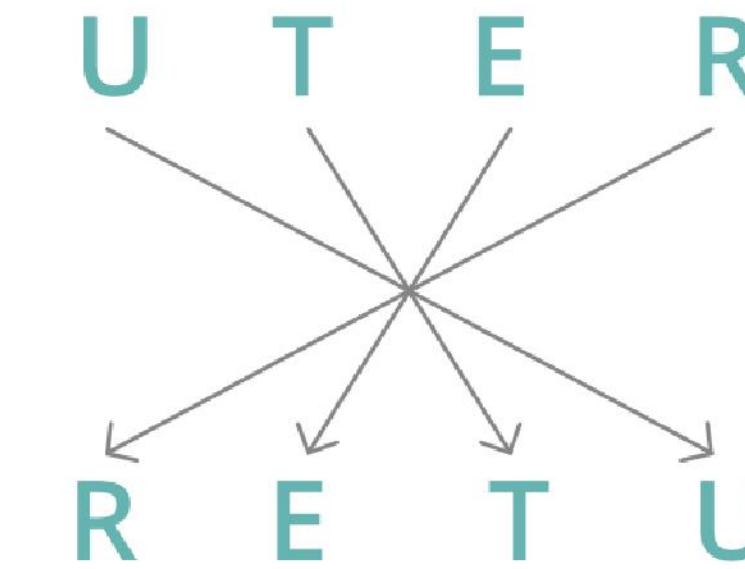
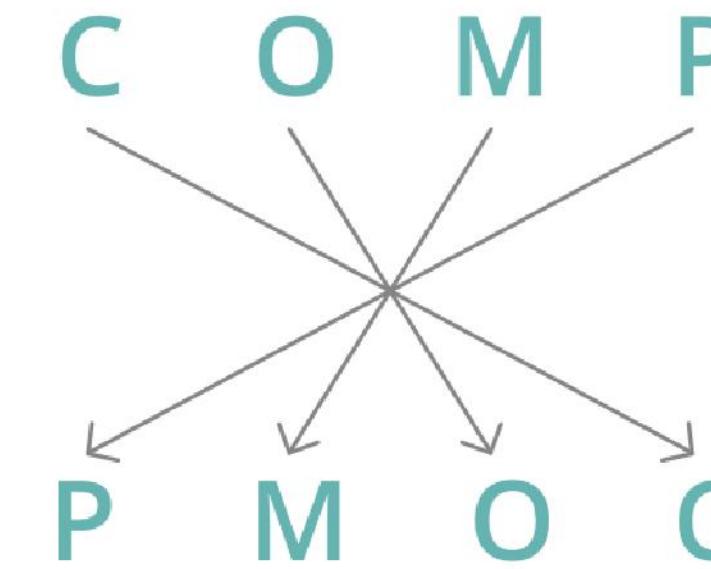
□ LQDIGRST

□ ISNKEGMP

□ PHERICED

# SOLUTION

---



# EXAMPLE 5

---

y□y□y□o□t□o□y□y□o□o□y□r□o□r□o□r□y□\$w□r□t□o□y□s□y□8197151□y□o□w□y□\$y□o□o□o□w□r□t□o□y□o□y□t□o□t□y□o□o□o□y

1□45389

2□451289

3□98354

4□45489

# SOLUTION

---

$$\text{H} = 8$$

$$\text{A} = 1$$

$$\text{R} = 18 = 1+8 = 9$$

$$\text{Y} = 25 = 2+5 = 7$$

$$\text{D} = 4$$

$$\text{E} = 5$$

$$\text{L} = 12 = 1+2 = 3$$

$$\text{H} = 8$$

$$\text{I} = 9$$

# SERIES

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- Letters
- Numbers

# EXAMPLE 1

---

QAR□RAS□SAT□TAU□□□□□

□□UAV

□□UAT

□□TAS

□□TAT

# SOLUTION

---

- In the index A is the first Address. It appears in the first segment.
- The middle address A is the main address.
- The first Address A is in alphabetical order at the beginning of R.

So the answer is UAV.

# EXAMPLE 2

---

Wha□come□ne□in□the□e□Aie□A□□□□□□

A□□□

B□□□

C□□□

D□□□

# SOLUTION

---

1□1□1y□y2

2□2□2□6

6□3□3□21

21□4□4□88

□□□yt□□y□□sw□ry□\$y88□

# EXAMPLE 3

---

Wha□come□ne□in□the□e□Aie□A□□□□□□□□

A□□□

B□□□

C□□□

D□□□

# SOLUTION

---

The difference between the concepts of time  
and space.

The difference between the concepts of time  
and space is the difference between the  
two concepts of time and space.

So the main difference between the two  
concepts of time and space is the difference  
between the two concepts of time and space.

So the main difference between the two  
concepts of time and space is the difference  
between the two concepts of time and space.

# EXAMPLE 4

A

B

C

D 

# SOLUTION

---

21y\*y1y□y1y□y22

22y\*y2y□y2y□y46

46y\*y3y□y3y□y141

141y\*y4y□y4y□y568

568y\*y5y□y5y□y2845

□□□yt□□y□□sw□ry\$y2845

# EXAMPLE 5

---

Which of the following is in the following sequence?

boddfogikqnapkAe

A apkA

B e

C kqn

D g

# SOLUTION

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- For each node in the first tree, add a new child node to the second tree.
  - The node being associated with the first tree's node is the second tree's node if it has a book with the same title as the first tree's node.
- কল করে একটি মাধ্যমে পুস্তকের নাম অনুসরে সেই পুস্তকের সম্পর্কের জন্য দ্বিতীয় গাছের একটি নতুন শাখা সৃষ্টি করা হবে। পুস্তকের নাম অনুসরে দ্বিতীয় গাছের একটি নতুন শাখা সৃষ্টি করা হবে।

# ASSIGNMENT

Wolf SPLINTER coded a PRISTINE be coded a

Wha come ne in the Ae A

Wolf-FAKE-coded, MAD-coded, when the DEER be-coded.

Wha come ne in the e Aie A

Once Again code FORGE Aiden FPTJI Hoard CULPRIT Aiden in ha code

□□f□TABLE□□coded□□GZYOV□□hoo□□□JUICE□□coded□□

Wha come ne in the Ae A

# THANK YOU

Aohainjo  
Technical Facilitator Development Kochi  
Talent Consulting Service Ltd.

