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OIR TEST

- 300+ TOPICWISE SOLVED QUESTIONS
- ORIGINAL QUESTIONS FROM ALL SSB



Officer Intelligence Rating or OIR is a test of intelligence of a candidate. This test comprises of two test booklets, each booklet has around 40 (sometimes 50) questions for which you will be given 17 Minutes time (will increase for 50 questions). You must try to solve all questions in the given time.

Generally, candidates talk unnecessarily about marking scheme of OIR that is if that much questions are correct then OIR 1 or so. But you must avoid any such talk as you can't control these things but you can surely control your performance so focus on that.

No. of Questions in each Booklet - 40

Time for each Booklet - 17 Minutes

The Questions in this test are so easy that even a 10th grade student would be too smart to do all of them correctly, but time is the factor which matters the most so match up yourself with time limit.

There is **No Negative** marking in this test.

"Watch is not allowed in any test at Services Selection Boards."

You must listen to each and every instruction given by the Person who is conducting your test, before actual test starts they will also conduct a practice test to make you familiar with the test.

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A proverb is provided :

A proverb is provided in the question, you have to select the option which explains the meaning of this proverb.

1. “A rolling stone gathers no moss” means

- a. Someone who does not settle in one place rarely prospers
- b. Stone rolling down a hill moves faster
- c. One should keep moving forward in his life
- d. One should not stop.

Answer. a

2. By the skin of one's teeth

- a. Hardly
- b. In time
- c. Hurriedly
- d. Only just

Answer. d

3. To throw up the sponge

- a. To surrender or give up a contest
- b. To offer a challenge
- c. To become utterly disappointed
- d. To maintain grit and enthusiasm until the end

Answer. a

4. To take a leap in the dark

- a. To take risk
- b. To hazard one self
- c. To do a task secretly
- d. To do a hazardous thing without any idea of the result

Answer. d

5. Degree covered by hour- hand in 12 hours is

- a. 45°
- b. 90°

c. 180°

d. 360°

Solution. In 12 hour an hour-hand rotates by 360° i.e. one complete revolution.
Hence in one hour it does

$$\frac{360}{12} = 30^\circ/\text{hour}$$

Therefore in 12 hours it will cover, $30^\circ \times 12 = 360^\circ$

Answer. d

6. A hunter kills half of the birds on a particular tree after some time he comes back and kills one-third of the remaining birds, if 10 birds are left in the end then what was the original number of birds on the tree.

a. 10

b. 20

c. 30

d. 40

Solution. Let x be the original number of birds

Birds left after the hunter killed half of them = $x/2$

Bird left after killing one-third of the remaining =

$$= \frac{x}{2} - \frac{1}{3} \times \frac{x}{2} = \frac{x}{2} \left(\frac{2}{3} \right) = \frac{x}{3}$$

Now $x/3 = 10$

Hence, $x = 30$

Answer. c

7. Ram, Ramesh and Rakesh share out a certain sum of money between them. Ram gets 35%, Ramesh gets $3/5$ and Rakesh gets Rs 125. How much is the original sum of money?

a. 1500

b. 1800

c. 2000

d. 2500

Solution. $35\% = 7/20$ and $3/5 = 12/20$ ie $19/20$ in total

Ramesh's share of Rs 125 must therefore be $1/20$

Total sum of money, therefore, is $\text{Rs } 125 \times 20 = 2,500$

Answer. d

8. P and Q started a business investing Rs 85 000 and Rs 15 000 respectively. In what ratio the profit earned after 2 years be divided between P and Q respectively?

a. 3:4

b. 3:5

□

c. 15:23

d. None of these

Answer. d

Statement justification :

Select the option which justifies the given statement.

9. Statement: A large number of highly educated youth migrates every year from India to western country because

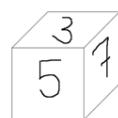
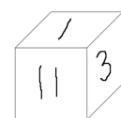
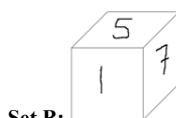
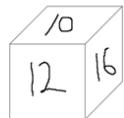
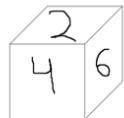
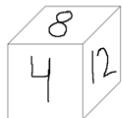
- a. They don't want to live in India
- b. In search of suitable job opportunity
- c. India is highly populated
- d. They don't like Indian climate

Answer. b

10. Statement: Renewable sources of energy must be used because

- a. Renewable energy is cheap
- b. Renewable sources of energy are environmental friendly.
- c. fossil fuel is costly
- d. Fossil fuel will be finished in near future

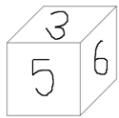
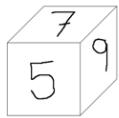
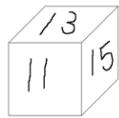
Answer. b



11. Set A:

Set B:

From the following cubes which cube matches with set A



Cubes A, B and C respectively

a. A

b. B

c. C

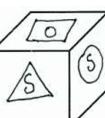
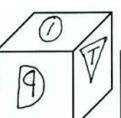
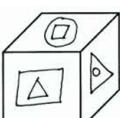
Solution. Cube C has one even number

Answer. c



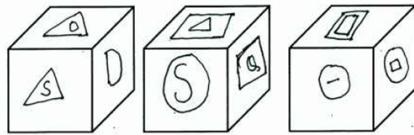
12. SET A:

SET B:



From the following cubes which cube matches with set A

□



Cubes A, B and C respectively :

- a. A
- b. B
- c. C

Solution. In Set A: the diagram is kind of repeated twice,
In set B: there is 1 figure inside of the closed figures.
Cube C upper face has a diagram which repeats twice, similar to set A

Answer. c

Choose the correct alternative :

Choose the correct alternative and complete the given series

13. 7, 10, 8, 11, 9, 12, . . .

- a. 7
- b. 10
- c. 12
- d. 13

Solution. This is a simple alternating addition and subtraction series. In the first pattern, 3 is added; in the second, 2 is subtracted.

Answer. b

14. 1.5, 2.3, 3.1, 3.9, . . .

- a. 4.2
- b. 4.4
- c. 4.7
- d. 5.1

Solution. In this simple addition series, each number increases by 0.8.

Answer. c

15. If in a certain language, COUNSEL is coded as BITIRAK, how is GUIDANCE written in that code?

- a. FOHZYJBB
- b. EOHZYKBB
- c. HOHZYBJBA
- d. FPHZZKAB

Solution. The letters at odd positions are each moved one step backward, while the letters at even positions are respectively moved six, five, four, three, two, ?? steps backward to obtain the corresponding letters of the code.

Answer. a

16. If in a certain language, CALCUTTA is coded as GEPGYXXE, which word would be coded as FSQFCE?

- a. BOMBAY

b. BOMYAB

c. BOMBYA

d. BOBAMY

Solution. Each letter of the word is four steps behind the corresponding letter of the code.

Answer. c

17. Which word will come last in the dictionary?

a. Grasp

b. Graze

c. Grey

d. Gram

Answer. c

18. Which word will come last in the dictionary?

a. Quiet

b. Quick

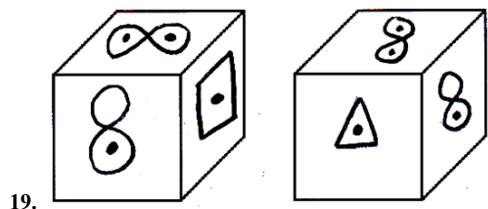
c. Queue

d. Quote

Answer. d

cubes :

Find if the following cubes are similar or not, choose yes or no from the option.

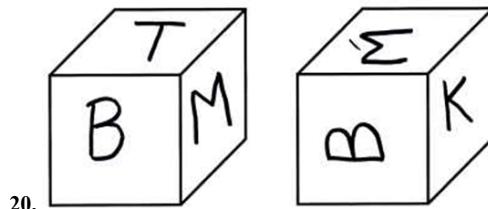


a. yes

b. no

Solution. yes - the cube has been rotated by 90 degree toward the east. hiding one of the visible sides while showing a new one.

Answer. a



a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the west. hiding one of the visible sides while showing a new one.



Answer. a

Test Answer

- | | | | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1. (a) | 2. (d) | 3. (a) | 4. (d) | 5. (d) | 6. (c) | 7. (d) | 8. (d) | 9. (b) | 10. (b) |
| 11. (c) | 12. (c) | 13. (b) | 14. (c) | 15. (a) | 16. (c) | 17. (c) | 18. (d) | 19. (a) | 20. (a) |

A proverb is provided :

A proverb is provided in the question, you have to select the option which explains the meaning of this proverb.

1. A chip of old block

- a. A piece of wood
- b. An old friend
- c. Characteristics of one's ancestors
- d. To good bargain

Answer. c

2. To smell a rat

- a. To detect a bad smell
- b. To misunderstand
- c. To suspect a trick or deceit
- d. To see hidden meaning

Answer. c

3. To take people by storm

- a. To put people in utter surprise
- b. To captivate them unexpectedly
- c. To exploit people's agitation
- d. To bring out something sensational attracting

Answer. b

4. To through up the sponge

- a. To surrender or give up a contest
- b. To offer a challenge
- c. To become utterly disappointed
- d. To maintain grit and enthusiasm until the end

Answer. a

5. Harp on

- a. To comment
- b. To criticize



- c. To keep on talking
- d. To keep on insulting

Answer. c

6. To catch somebody on the hop

- a. To give someone a surprise
- b. To catch somebody off guard
- c. To stand in the way of someone
- d. To catch somebody suddenly

Answer. b

7. To spill the beans

- a. To reveal secret information
- b. To misbehave
- c. To keep secrets
- d. To talk irrelevant

Answer. a

8. To bring one's eggs to a bad market

- a. To face a humiliating situation
- b. To bring one's commodities to a market where there is no demand for them
- c. To show one's talents before audience which is incapable of appreciating them
- d. To fail in one's plans because one goes to the wrong people for help

Answer. d

9. To hit below the belt

- a. To work confidentially
- b. To harm unfairly
- c. To strike at the exact position
- d. To hit the correct mark

Answer. b

10. To get cold feet

- a. To run for life
- b. To be afraid
- c. To fall sick
- d. To become discourteous

Answer. b

□

11. To take a leap in the dark

- a. To take risk
- b. To hazard one self
- c. To do a task secretly
- d. To do a hazardous thing without any idea of the result

Answer. d

12. To give/get the bird

- a. To get the awaited
- b. To have good luck
- c. To send away
- d. To get the impossible

Answer. c

13. To be at daggers drawn

- a. To be frightened
- b. To be ready to face danger
- c. To threaten one
- d. To be bitter enemy

Answer. d

14. To turn up one's nose at a thing

- a. To show eagerness to have something
- b. To show indifference
- c. To treat it with contemptuous dislike or disgust
- d. To start to grapple with it

Answer. c

15. To save one's face

- a. To hide oneself
- b. To oppose
- c. To evade disgrace
- d. To say plainly

Answer. c

16. To break the ice

- a. to start quarrelling
- b. to end the hostility

- c. to start a conversation
- d. to end up partnership

Answer. c

17. To wash one's dirty linen in public

- a. To criticize one's nature in public
- b. To quarrel in the open
- c. To do some ugly work in public
- d. To discuss dirty and scandalous matters of personal nature in the presence of strangers

Answer. d

18. To blow hot and cold

- a. changing weather
- b. to be untrustworthy
- c. to be inconsistent
- d. to be rich and poor frequently

Answer. c

19. To throw dust in one's eyes

- a. To show false things
- b. To make blind
- c. To harm someone
- d. To deceive

Answer. d

20. To be rolling in money

- a. Wasting a lot of money
- b. Very rich
- c. Borrowing money liberally
- d. Spending more than his income

Answer. b

Test Answer

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

A proverb is provided :

A proverb is provided in the question, you have to select the option which explains the meaning of this proverb.

1. “A rolling stone gathers no moss” means

- a. Someone who does not settle in one place rarely prospers
- b. Stone rolling down a hill moves faster
- c. One should keep moving forward in his life
- d. One should not stop.

Answer. a

2. There is dawn after every dusk

- a. change is inevitable
- b. things always remain the same
- c. one should not become hopeless
- d. hope for the best

Answer. a

3. To take with a grain of salt

- a. To take with some reservation
- b. To take with total disbelief
- c. To take whole heatedly
- d. To take seriously

Answer. a

4. To keep one's head

- a. To be agile and active
- b. To keep calm
- c. To think coherently
- d. None of these

Answer. b

5. To cross swords

- a. To fight

b. To defend

c. To kill

d. To rob

Answer. a

6. To give up the ghost

a. To suffer

b. To fight evil forces

c. To die

d. To become rational

Answer. c

7. To turn over a new leaf

a. To change completely one's course of action

b. To shift attention to new problems after having studied the old ones thoroughly

c. To cover up one's faults by wearing new marks

d. To change the old habits and adopt new ones

Answer. d

8. To be at loggerheads

a. To have tough encounter

b. To be at enmity or strife

c. To face stiff opposition

d. To tax one's mind and body

Answer. b

9. To talk through one's hat

a. To speak fluently

b. To talk nonsense

c. To talk wisdom

d. To speak at random

Answer. b

10. To snap one's finger

a. To speak abruptly

b. To accept immediately

c. To grasp eagerly

d. To become contemptuous of

Answer. d

11. A pipe dream

- a. A pleasant dream
- b. A bad dream
- c. An impractical plan
- d. A foolish idea

Answer. c

12. To give up the ghost

- a. To die
- b. To make false appearance
- c. To terrify others by acting in suspicious manner
- d. To leave useless pursuits

Answer. a

13. To have an easy time of it

- a. To take the world lightly
- b. To indulge in frivolities
- c. To squander away resources
- d. To live in quiet and comfort

Answer. d

14. To stand one's gun

- a. To keep the guns close to oneself even amid danger
- b. To persevere when hardships press
- c. To maintain dignified and unbending attitude
- d. To maintain one's position

Answer. b

15. To take the bull by the horns

- a. To punish a person severely for his arrogance
- b. To grapple courageously with a difficulty that lies in our way
- c. To handle it by fierce attack
- d. To bypass the legal process and take action according to one's own whims

Answer. b

16. To lose one's head

- a. To go mad
- b. To become nervous

- c. To become confused and over excited
- d. To lose the balance

Answer. c

17. By the skin of one's teeth

- a. Hardly
- b. In time
- c. Hurriedly
- d. Only just

Answer. d

18. To throw down the glove

- a. To resort to wrong tactics
- b. To give a challenge
- c. To accept defeat
- d. To reject the prize

Answer. b

19. To be in abeyance

- a. To be in trouble
- b. Dual minded
- c. In a fighting mode
- d. In suspense

Answer. d

20. To cast pearls before a swine

- a. To spend recklessly
- b. To spend a lot of money on the unkeep of domestic hogs
- c. To waste over trifles
- d. To offer to a person a thing which he cannot appreciate

Answer. d

Test Answer

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

1. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A strong dislike, distrust, or fear of foreigners is known as oiaobhnxpe

Solution. xenophobia

Answer. a

2. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

ckirb is used in making walls and houses.

Solution. brick

Answer. k

3. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

cgabaeb is a leafy green or purple biennial plant, grown as an annual vegetable crop for its dense-leaved heads

Solution. cabbage

Answer. e

4. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

inptroe are large biological molecules, or macromolecules, consisting of one or more chains of amino acid residues.

Solution. protein

Answer. n

5. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A remarkable concurrence of events or circumstances without apparent causal connection is called as ecinneiccod

Solution. coincidence

Answer. e

6. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A cciyarl is a person concerned only with one's own interests and typically disregarding accepted standards in order to achieve them.

Solution. cynical

Answer. l

7. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A prolonged period of abnormally low rainfall, leading to a shortage of water is called as oturgdh

Solution. drought

Answer. t

8. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A aohx is a humorous or malicious deception.

Solution. hoax

Answer. x

9. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

clrimea is an extraordinary and welcome event that is not explicable by natural or scientific laws and is therefore attributed to a divine agency.

Solution. miracle

Answer. e

10. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A konm is a person who practices religious asceticism, living either alone or with any number of wild animals.

Solution. monk

Answer. k

11. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

An smtiipict person thinks the best possible thing will happen, and hopes for it even if it's not likely.

Solution. optimistic

Answer. c

12. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A opyl is cunning plan or action designed to turn a situation to one's own advantage.

Solution. ploy

Answer. y

13. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A lpuibcer is a state in which supreme power is held by the people and their elected representatives.

Solution. republic

Answer. c

14. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A lshooc is an institution for educating children.

Solution. school

Answer. l

15. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A nirshe is a place regarded as holy because of its associations with a divinity or a sacred person or relic, marked by a building or other construction.

Solution. shrine

Answer. e

Test Answer

1. (a)	2. (k)	3. (e)	4. (n)	5. (e)	6. (l)	7. (t)	8. (x)	9. (e)	10. (k)
11. (c)	12. (y)	13. (c)	14. (l)	15. (e)					

Test Name	Rearrange Words -1[OIR]	Total Questions	20
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1. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

aprkn is a kind of magic word.

Solution. Prank

Answer. k

2. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

olrepda has black spots on its body

Solution. Leopard

Answer. d

3. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

Eacpcko is a bird known for its beautiful feathers

Solution. Peacock

Answer. k

4. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

arleka is an Indian state

Solution. kerala

Answer. a

5. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A seeliasd is an abnormal condition affecting the body of an organism.

Solution. disease

Answer. e

6. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

onvgxe is an important part of the atmosphere

Solution. oxygen

Answer. n

7. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

nntiiife is limitless or endless in space, extent, or size; impossible to measure or calculate.

Solution. infinite

Answer. e

8. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

ektraa is an oriental system of unarmed combat using the hands and feet to deliver and block blows, widely practised as a sport.

Solution. karate

Answer. e

9. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

labyooart is a room or building equipped for scientific experiments, research, or teaching, or for the manufacture of drugs or chemicals.

Solution. laboratory

Answer. y

10. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

engglaua is a system of communication used by a particular country or community.

Solution. language

Answer. e

11. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

lueceolm represents the smallest fundamental unit of a chemical compound that can take part in a chemical reaction.

Solution. molecule

Answer. e

12. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A evlno is a long narrative that is normally in prose, which describes fictional characters and events, usually in the form of a sequential story.

Solution. novel

Answer. l

13. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

Something which is not transparent or translucent is called as uageop

Solution. opaque

Answer. e

14. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

Regular repeated elliptical course of a celestial object or spacecraft about a star or planet is known as rbiot

Solution. orbit

Answer. t

15. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

lpephamt is a small booklet or leaflet containing information or arguments about a single subject.

Solution. pamphlet

Answer. t

16. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

grrpaahpa a distinct section of a piece of writing, usually dealing with a single theme and indicated by a new line, indentation, or numbering

Solution. paragraph

Answer. h

17. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

hscsipy is the branch of science concerned with the nature and properties of matter and energy

Solution. physics

Answer. s

18. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

euplrp is a colour intermediate between red and blue.

Solution. purple

Answer. e

19. Unscramble the **underlined** word based on the given statement and write down the last letter of this word in the blank provided below.

A long or arduous search for something is also known as a utqse

Solution. quest

Answer. t

20. Unscramble the underlined word based on the given statement and write down the last letter of this word in the blank provided below.

ersrorie is a large natural or artificial lake used as a source of water supply.

Solution. Reservoir

Answer. r

Test Answer

1. (k)	2. (d)	3. (k)	4. (a)	5. (e)	6. (n)	7. (e)	8. (e)	9. (y)	10. (e)
11. (e)	12. (l)	13. (e)	14. (t)	15. (t)	16. (h)	17. (s)	18. (e)	19. (t)	20. (r)

Choose the correct alternative :

Choose the correct alternative and complete the given series

1. $\frac{1}{9}, \frac{1}{3}, 1, \underline{?}, 9, \dots$

- a. $\frac{2}{3}$
- b. 3
- c. 6
- d. 27

Solution. This is a multiplication series; each number is 3 times the previous number.

Answer. b

2. U32, V29, ?, X23, Y20,

- a. W26
- b. W17
- c. Z17
- d. Z26

Solution. In this series, the letters progress by 1; the numbers decrease by 3.

Answer. a

3. J14, L16, ?, P20, R22,

- a. S24
- b. N18
- c. M18
- d. T24

Solution. In this series, the letters progress by 2, and the numbers increase by 2.

Answer. b

4. F2, ?, D8, C16, B32,

- a. A16
- b. G4
- c. E4
- d. E3

Solution. The letters decrease by 1; the numbers are multiplied by 2.

Answer. c

5. V, VIII, XI, XIV, __, XX, . . .

- a. IX
- b. XXIII
- c. XV
- d. XVII

Solution. This is a simple addition series; each number is 3 more than the previous number.

Answer. d

6. XXIV, XX, __, XII, VIII, . . .

- a. XXII
- b. XIII
- c. XVI
- d. IV

Solution. This is a simple subtraction series; each number is 4 less than the previous number.

Answer. c

7. VI, 10, V, 11, __, 12, III, . . .

- a. II
- b. IV
- c. IX
- d. 14

Solution. This is an alternating addition and subtraction series. Roman numbers alternate with Arabic numbers. In the Roman numeral pattern, each number decreases by 1. In the Arabic numeral pattern, each number increases by 1.

Answer. b

Complete the series :
Complete the series

8. A, B, D, G, ?, P

- a. I
- b. J
- c. K
- d. L

Solution. ABCD EFGH IJKL MNOP QRST UVWX YZ

Difference between A and B is 0, between B and D is 1, between D and G is 2 and so on to 3, 4 and 5 . . .

Answer. c

9. Z, S, W, O, T, K, Q, G, ?, ?

- a. N,D

b. N,C

c. O,C

d. O,D

Solution. Z, S, W, O, T, K, Q, G, ?, ?

ABCD EFGH IJKL MNOP QRST UVWX YZ

The underlined letters have a pattern, i.e. the consecutive underlined letters has a difference of two letters between them in alphabetical order.

The alphabets which are not underlined have difference of 3 alphabets between them.

Answer. b

10. BCD , RQP , LMN, TS?

a. U

b. V

c. R

d. T

Solution. A BCD EFGH IJK LMN O PQR ST UVWX YZ

BCD and LMN are in normal increasing alphabetical order.

RQP and TSR and in reverse alphabetical order

Answer. c

Test Answer

1. (b)

2. (a)

3. (b)

4. (c)

5. (d)

6. (c)

7. (b)

8. (c)

9. (b)

10. (c)

Choose the correct alternative :

Choose the correct alternative and complete the given series

1. 7, 10, 8, 11, 9, 12, . . .

a. 7

b. 10

c. 12

d. 13

Solution. This is a simple alternating addition and subtraction series. In the first pattern, 3 is added; in the second, 2 is subtracted.

Answer. b

2. 14, 28, 20, 40, 32, 64, . . .

a. 52

b. 56

c. 96

d. 128

Solution. This is an alternating multiplication and subtracting series: First, multiply by 2 and then subtract 8.

Answer. b

3. 1.5, 2.3, 3.1, 3.9, . . .

a. 4.2

b. 4.4

c. 4.7

d. 5.1

Solution. In this simple addition series, each number increases by 0.8.

Answer. c

4. 5.2, 4.8, 4.4, 4, . . .

a. 3

b. 3.3

c. 3.5

d. 3.6

Solution. In this simple subtraction series, each number decreases by 0.4.

Answer. d

□

5. 2, 1, 1/2, 1/4 . . .

- a. 1/3
- b. 1/8
- c. 2/8
- d. 1/16

Solution. This is a simple division series; each number is one-half of the previous number.

Answer. b

6. 8, 43, 11, 41, 2, 39, 17, . . .

- a. 8
- b. 14
- c. 43
- d. 44

Solution. This is a simple alternating addition and subtraction series. The first series begins with 8 and adds 3; the second begins with 43 and subtracts 2.

Answer. b

7. 15, 2, 27, 27, 39, 39, . . .

- a. 51
- b. 39
- c. 23
- d. 15

Solution. In this simple addition with repetition series, each number in the series repeats itself, and then increases by 12 to arrive at the next number.

Answer. d

8. 83, 73, 93, 63, 2, 93, 43, . . .

- a. 33
- b. 53
- c. 73
- d. 93

Solution. This is a simple subtraction series in which a random number, 93, is interpolated as every third number. In the subtraction series, 10 is subtracted from each number to arrive at the next.

Answer. b

9. 4, 7, 25, 10, 2, 20, 16, 19, . . .

- a. 13
- b. 15
- c. 20
- d. 28

Solution. Two series alternate here, with every third number following a different pattern. In the main series, 3 is added to each number to arrive at the

next. In the alternating series, 5 is subtracted from each number to arrive at the next.

Answer. a

10. 72, 76, 73, 77, 74, 2, 75, . . .

a. 70

b. 71

c. 75

d. 78

Solution. This series alternates the addition of 4 with the subtraction of 3.

Answer. d

Test Answer

1. (b) **2.** (b) **3.** (c) **4.** (d) **5.** (b) **6.** (b) **7.** (d) **8.** (b) **9.** (a) **10.** (d)

**Choose the correct alternative :**

Choose the correct alternative and complete the given series

1. 2, 4, 6, 8, 10, . . .

a. 11

b. 12

c. 13

d. 14

Solution. This is a simple addition series. Each number increases by 2.

Answer. b

2. 58, 52, 46, 40, 34, . . .

a. 26

b. 28

c. 30

d. 32

Solution. This is a simple subtraction series. Each number is 6 less than the previous number.

Answer. b

3. 40, 40, 47, 47, 54, . . .

a. 40

b. 44

c. 54

d. 61

Solution. This is an alternation with repetition series in which each number repeats itself and then increases by 7.

Answer. c

4. 544, 509, 474, 439, . . .

a. 404

b. 414

c. 420

d. 445

Solution. This is a simple subtraction series. Each number is 35 less than the previous number.

Answer. a

5. 201, 202, 204, 207, . . .

- a.** 205
- b.** 208
- c.** 210
- d.** 211

Solution. In this addition series, 1 is added to the first number; 2 is added to the second number; 3 is added to the third number; and so forth.

Answer. d

6. 8, 22, 8, 28, 8, . . .

- a.** 9
- b.** 29
- c.** 32
- d.** 34

Solution. This is a simple addition series with a random number, 8, interpolated as every other number. In the series, 6 is added to each number except 8, to arrive at the next number.

Answer. d

7. 80, 10, 70, 15, 60, . . .

- a.** 20
- b.** 25
- c.** 30
- d.** 50

Solution. This is an alternating addition and subtraction series. In the first pattern, 10 is subtracted from each number to arrive at the next. In the second, 5 is added to each number to arrive at the next.

Answer. a

8. 36, 34, 30, 28, 24, . . .

- a.** 20
- b.** 22
- c.** 23
- d.** 26

Solution. This is an alternating number subtraction series. First, 2 is subtracted, then 4, then 2, and so on.

Answer. b

9. 22, 21, 23, 22, 24, 23, . . .

- a.** 22
- b.** 24
- c.** 25
- d.** 26

Solution. In this simple alternating subtraction and addition series; 1 is subtracted, then 2 is added, and so on.

Answer. c

10. 3, 4, 7, 8, 11, 12, . . .

a. 7

b. 10

c. 14

d. 15

Solution. This alternating addition series begins with 3; then 1 is added to give 4; then 3 is added to give 7; then 1 is added, and so on.

Answer. d

11. 31, 29, 24, 22, 17, . . .

a. 15

b. 14

c. 13

d. 12

Solution. This is a simple alternating subtraction series, which subtracts 2, then 5.

Answer. a

12. 21, 9, 21, 11, 21, 13, . . .

a. 14

b. 15

c. 21

d. 23

Solution. In this alternating repetition series, the random number 21 is interpolated every other number into an otherwise simple addition series that increases by 2, beginning with the number 9.

Answer. c

13. 53, 53, 40, 40, 27, 27, . . .

a. 12

b. 14

c. 27

d. 53

Solution. In this series, each number is repeated and then 13 is subtracted to arrive at the next number.

Answer. b

14. 2, 6, 18, 54, . . .

a. 108

b. 148

c. 162

d. 216

Solution. This is a simple multiplication series. Each number is 3 times more than the previous number.

Answer. c

15. 1,000, 200, 40, . . .

a. 8

b. 10

c. 15

d. 20

Solution. This is a simple division series. Each number is divided by 5.

Answer. a

Test Answer

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

Choose the correct alternative :

Choose the correct alternative and complete the given series

1. 1, 3, 5, 7, 2

a. 8

b. 9

c. 10

d. 11

Solution. (9)- Progression of odd numbers.

Answer. b

2. 2, 5, 9, 14, 2

a. 16

b. 18

c. 20

d. 22

Solution. (20): the difference between the first two numbers is 3. The difference between the third and fourth number is 5, so that 6 must be the difference between the fourth and fifth number, 14 plus 6 = 20.

Answer. c

3. 10, 5, 8, 4, 6, 2

a. 1

b. 3

c. 2

d. 7

Solution. (3): divide the sequence into sets of two numbers. The second number is one-half of the first number.

Answer. b

4. 3, 3, 9, 8, 4, 4, 16, 15, 5, 5, 25, 2

a. 24

b. 16

c. 20

d. 21

Solution. (24): divide numbers into groups of four. Multiply the first number and the second number to get the third number and then subtract one from the third number to the fourth number.

Answer. a

5. 81, 27, 9, 3, 2

- a. 1
- b. 2
- c. 3
- d. 4

Solution. (1): each number in regression is divided by 3.

Answer. a

6. 25, 5, 16, 4, 9, 2

- a. 6
- b. 2
- c. 1
- d. 3

Solution. (3): Divide into sets of two numbers. The second number is the square root of the number.

Answer. d

7. 9, 5, 6, 8, 4, 5, 7, 3, 2

- a. 1
- b. 2
- c. 3
- d. 4

Solution. (4): divide into sets of 3 numbers. From the first number subtract 4 then add 1 to get the third number.

Answer. d

8. 2, 3, 5, 3, 4, 7, 4, 5, 2

- a. 4
- b. 7
- c. 8
- d. 9

Solution. (9): divide into sets of 3 numbers. The sum of the first two numbers equals the third number.

Answer. d

9. 2, 13, 4, 11, 6, 9, 2

- a. 5
- b. 8
- c. 10
- d. 17

Solution. (8): the first, third and fifth numbers indicate a progression of two. The seventh number therefore will be 8

Answer. b

10. 16, 4, 2, 25, 5, 3, 36, 6, ?

a. 2

b. 3

c. 4

d. 7

Solution. (4): divide into sets of 3 numbers. The second number is the square root of the first. Then subtract two to get the third number.

Answer. c

11. 1, 16, 2, 15, 3, 14, 4, ?

a. 11

b. 12

c. 13

d. 14

Solution. (13): Starting with the second number, every other number goes down by one.

Answer. c

12. 27, 9, 21, 3, 17, 7, 13, ?

a. 14

b. 2

c. 4

d. 12

Solution. (4) Divide onto sets of 2 numbers. The sum of the digits of the first number equals the second number. The sum of the digits of 13 = 4

Answer. c

13. 6, 18, 5, 15, 4, 12, 3, ?

a. 19

b. 9

c. 11

d. 13

Solution. (9): Divide the sets of 2 numbers. The first number multiplied by 3 equals the second number.

Answer. b

14. 3, 5, 8, 7, 4, 6, 10, 9, 5, 7, 12, ?

a. 11

b. 6

c. 13

d. 4

Solution. (11): Divide the sets of 4 numbers. Add the first and second numbers to get the third, then subtract 1 from the third number to get the fourth number.

Answer. a

15. 1, 1, 1, 2, 2, 2, 4, 1, 5, 3, 3, 9, 1 2

a. 3

b. 10

c. 9

d. 6

Solution. (10): Divide into sets of 5 numbers. The first number multiplied by the second number equals

Answer. b

Test Answer

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

Test Name	Coding And Decoding -3[OIR]	Total Questions	10
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1. If in a certain language, MACHINE is coded as LBB1HOD, which word would be coded as SLTMFNB?

- a. TMUNGOC
- b. TMUNGMC
- c. TKULGMC
- d. RMSNEOA

Solution. In the code, we have alternately one letter one step behind and the other one step ahead of the corresponding letter in the word.

Answer. c

2. If LBAEHC is the code for BLEACH, then which of the following is coded NBOLZKMH?

- a. BNLOKZHM
- b. MANKYJLG
- c. LOBNHMKZ
- d. OBNKZLHM

Solution. The word is formed into pairs of letters and the letters in each pair are reversed.

Answer. a

3. If in a certain code, COVET is written as FRYHW, which word would be written as SHDUO?

- a. STINK
- b. TIEVP
- c. PEARL
- d. REPAY

Solution. Each letter of the word is three steps behind the corresponding letter of the code.

Answer. c

4. If in a certain language, GRASP is coded as BMVNK, which word would be coded as CRANE?

- a. FUDQH
- b. HWFSJ
- c. GVERI
- d. XMVIZ

Solution. Each letter of the word is five steps ahead of the corresponding letter of the code.

Answer. b

5. If in a certain language, REMOTE is coded as ROTEME, which word would be coded as PNIICC?

- a. PICINC
- b. PICCIN
- c. NPIICC
- d. PICNIC

Solution. The groups of second and third letters and fourth and fifth letters in the word interchange places in the code.

Answer. d

6. If in a certain language, SHIFT is coded as RFFBO, which word would be coded as LKUMB?

- a. MMXQG
- b. KJTLA
- c. MJVLC
- d. KJVLA

Solution. The first, second, third, fourth and fifth letter in the word are respectively one, two, three, four and five steps ahead of the corresponding letter of the code.

Answer. a

7. If ROBUST is coded as QNATRS in a certain language, which word would be coded as ZXCMP?

- a. AYDNQ
- b. AWDLQ
- c. BZEOR
- d. YYBNO

Solution. Each letter of the word is one step ahead of the corresponding letter of the code.

Answer. a

8. If in a certain language, UTENSIL is coded as WVGPUKN, which word would be coded as DMSFXG?

- a. BKQDWE
- b. BKQDWF
- c. BKQDVF
- d. BKQDVE

Solution. Each letter of the word is two steps behind of the corresponding letter of the code.

Answer. d

9. **Directions ---** If A = C, B = D, C = E and so on, code the following:-

‘STUDENT’

- a. VWVFGPV
- b. UUWFGPV
- c. UVWFGPV
- d. UVVFGPV

Solution. ABCD EFGH IJKL MNOP QRST UVWX YZ

All letters are replaced with the next but one letter

STUDENT
UVWFGPV

Answer. c

10. Directions --- If A = Z, B = Y and so on, code the following:-

'EDITOR'

- a. VWRGLI
- b. VWRGVI
- c. VWVGLI
- d. VWRLLI

Solution. ABCD EFGH IJKL MNOP QRST UVWX YZ

In this the alphabets which count the same when counted from the beginning and the end are replaced.

EDITOR : VWRGLI

Answer. a

Test Answer

1. (c) 2. (a) 3. (c) 4. (b) 5. (d) 6. (a) 7. (a) 8. (d) 9. (c) 10. (a)

Test Name	Coding And Decoding -2[OIR]	Total Questions	15
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1. In a certain code, TOGETHER is written as RQEGRJCT. In the same code, PAROLE will be written as

- a. RCTQNG
- b. NCPQJG
- c. NCQPJG
- d. RCPQJK

Solution. The letters at odd positions are each moved two steps backward and those at even positions are each moved two steps forward to obtain the corresponding letters of the code.

Answer. b

2. If DELHI is coded as CCIDD, how would you encode BOMBAY?

- a. AMJXVS
- b. AJMTVT
- c. MJXVSU
- d. WXYZAX

Solution. The first, second, third, ... letters of the word are respectively moved one, two, three,.. Steps backward to obtain the corresponding letters of the code

Answer. a

3. If in a certain language, NATURE is coded as MASUQE, how is FAMINE coded in that code?

- a. FBMJND
- b. GANIOE
- c. EALIME
- d. FZMHND

Solution. The second, fourth and sixth letters of the words remain unchanged, while the first, third and fifth letters are each moved one step backward to obtain the corresponding letters of the code.

Answer. c

4. If FRIEND is coded as HUMJTK, how is CANDLE written in that code?

- a. DCQHQK
- b. ESJFME
- c. EDRIRL
- d. FYOBOC

Solution. The first, second, third, fourth, fifth and sixth letters of the word are respectively moved two, three, four, five, six and seven steps forward to obtain the corresponding letters of the code.

Answer. c

5. If DIAMOND is coded as VQYMKLV, how is FEMALE coded?

- a. TVNYNV
- b. UVNZOV
- c. TUMZOU
- d. TUMYNU

Solution. If in the word, a letter is nth letter from the beginning of the English alphabet, then in the code the corresponding letter is the (n+ 1)th letter from the end of the alphabet.

Answer. d

6. If VICTORY is coded as YLFWRUB, how can SUCCESS be coded?

- a. VXFFHVV
- b. VXEEIVV
- c. VYEFIVV
- d. VYEEHVV

Solution. Each letter of the word is moved three steps forward to obtain the code.

Answer. a

7. In a certain code, SUBSTITUTION is written as ITSBUSNOITUT. How is DISTRIBUTION written in that code?

- a. IRTDISNOIUTB
- b. 1RTSIDNOIBUT
- c. IRTDISNOITUB
- d. IRTSIDNOITUB

Solution. First, the first six letters and then the last six letters are written in a reverse order to obtain the code.

Answer. d

8. If in a code language, COULD is written as BNTKC and MARGIN is written as LZQFHM, how will MOULDING be written in that code?

- a. NITKHCMF
- b. CHMFINTK
- c. LNKTCHMF
- d. LNTKCHMF

Solution. Each letter in the word is moved one step backward to obtain the corresponding letter of the code.

Answer. d

9. If in a certain language, COUNSEL is coded as BITIRAK, how is GUIDANCE written in that code?

- a. FOHZJBB
- b. EOHZKBB
- c. HOHYBJBA
- d. FPHZZKAB

Solution. The letters at odd positions are each moved one step backward, while the letters at even positions are respectively moved six, five, four, three, two, ?? steps backward to obtain the corresponding letters of the code.

Answer. a

10. If in a certain language, GAMBLE is coded as FBLCKF, how is FLOWER coded in that code?

- a. HNQYGT
- b. GMPVDS
- c. GKPVFQ
- d. EMNXDS

Solution. The first, third and fifth letters are each moved one step backward, while the second, fourth and sixth letters are each moved one step forward to obtain the corresponding letters of the code.

Answer. d

11. In a certain code, REFRIGERATOR is coded as ROTAREGIRFER. Which word would be coded as NOITINUMMA?

- a. AMMUNITION
- b. NMMUNITIOA
- c. ANMOMIUTNI
- d. AMNTOMUIIN

Solution. The order of letters of the word is reversed in the code. So, reverse the letters in the code to get the word.

Answer. a

12. If in a certain language, TRIANGLE is coded as SQHZMFKD, which word would be coded as DWZLOKD?

- a. FIGMENT
- b. DISJOIN
- c. DISMISS
- d. EXAMPLE

Solution. Each letter of the word is one step ahead of the corresponding letter of the code.

Answer. d

13. If FULFNHW is the code for CRICKET, then EULGH is the code for which word?

- a. PRIDE
- b. BRIDE
- c. BLADE
- d. BLIND

Solution. Each letter of the word is three steps behind the corresponding letter of the code.

Answer. b

14. If in a certain language, CALCUTTA is coded as GEPGYXXE, which word would be coded as FSQFCE?

- a. BOMBAY
- b. BOMYAB

c. BOMBYA

d. BOBAMY

Solution. Each letter of the word is four steps behind the corresponding letter of the code.

Answer. c

15. If ELCSUM is the code for MUSCLE, which word has the code LATIPAC?

a. CAPRICE

b. CONFESS

c. CONDUCE

d. CAPITAL

Solution. In the code, the letters of the word are put in the reverse order of positions.

Answer. d

Test Answer

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

1. If MADRAS can be written as ARSARS, how can ARKONAM be written in that code?

- a. ROAAKNM
- b. ROAKANM
- c. ROAKNNM
- d. ROKANAM

Solution. The word is first written twice and the letters at the even positions in the word so obtained from the code.

Answer. a

2. In a certain code, COMPUTER is written as RFUVQNPC. How is MEDICINE written in the same code?

- a. EOJDEJFM
- b. MFEJDJOE
- c. MFEDJJOE
- d. EOJDJEFM

Solution. The letters of the word are written in a reverse order and each letter, except the first and the last one is moved one step forward, to obtain the code.

Answer. d

3. If in a certain language FASHION is coded as FOIHSAN, how is PROBLEM coded in that code?

- a. PELBROM
- b. PRBOELM
- c. PELBORM
- d. RPBOELM

Solution. The first and the last letters of the word remain as such and the remaining letters are written in a reverse order, to obtain the code.

Answer. c

4. If BOMBAY is written as MYMYMY, how will TAMILNADU be written in that code?

- a. TIATIATIA
- b. IATIATIAT
- c. MNUMNUMNU
- d. ALDALDALD

Solution. The letters at the third and sixth places are repeated thrice to code BOMBAY as MYMYMY. Similarly, the letters at the third, sixth and ninth places are repeated thrice to code TAMIL NADU as MNUMNUMNU.

Answer. c

5. If CIGARETTE is coded as GICERAETT, then DIRECTION will be coded as

- a. NOIETCRID
- b. RIDTCENOI
- c. IRDCTIONE
- d. NORTECDII

Solution. The word is divided into groups of three letters each and then the letters in each group are written in a reverse order to obtain the code.

Answer. b

6. According to a military code, SYSTEM is SYSMET and NEARER is AENRER. What is the code for FRACTION?

- a. CARFNOIT
- b. CARFTION
- c. FRACNOIT
- d. ARFCNOIT

Solution. The letters in the first half and the latter half of the word are separately reversed to obtain the code.

Answer. a

7. In a certain code, TRIPPLE is written as SQHOOKD. How is DISPOSE written in that code?

- a. DSOESPI
- b. CHRONRD
- c. ESOPSID
- d. ESJPTTF

Solution. Each letter in the word is moved one step backward to obtain the corresponding letter of the code.

Answer. b

8. If FRAGRANCE is written as SBHSBODFG, how can IMPOSING be written?

- a. NQTPJOHJ
- b. NQPTJHOJ
- c. NQPTJOHI
- d. NQPTJOHJ

Solution. Each letter in the word is moved one step forward and the first letter of the group. So obtained is put at the end, to obtain the code.

Answer. d

9. If in a certain language KINDLE is coded as ELDNIK, how is EXOTIC coded in that code?

- a. EOXITC
- b. EXOTLC
- c. CITOXE
- d. COXITE

Solution. The letters of the word are written in a reverse order to obtain the code.

Answer. c

10. In a code, CORNER is written as GSVRIV. How can CENTRAL be written in that code?

- a. DFOUSBM
- b. GIRXVEP
- c. GNFJKER
- d. GJRYVEP

Solution. Each letter of the word is moved four steps forward to obtain the code.

Answer. b

11. In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code?

- a. UJHFS
- b. SDFHS
- c. SHFDQ
- d. QDFHS

Solution. The letters of the word are written in a reverse order and then each latter is moved one step backward to obtain the code.

Answer. d

12. If in a certain code, TEACHER is written as VGCEJGT, how would DULLARD be written in the same code?

- a. FWNNCSF
- b. FWNNCTF
- c. FWMNCTF
- d. FWNNBTE

Solution. Each letter of the word is moved two steps forward to obtain the code.

Answer. b

13. If JOSEPH is coded as FKOALD, then GEORGE will be coded as

- a. CAKNCA
- b. CADMNO
- c. CAKNIT
- d. DBLODB

Solution. Each letter of the word is moved four steps backward to obtain the code.

Answer. a

14. In a certain code, PAPER is written as SCTGW. How is MOTHER written in that code?

- a. ORVLGW
- b. PQXJJT
- c. PQVJGT
- d. PQXKJV

Solution. The first, third and fifth letters of the word are respectively moved three, four and five steps forward, while the letters at even positions are each moved two steps forward, to obtain the corresponding letters of the code.

Answer. b

15. If in a certain language, MADRAS is coded as NBESBT, how is BOMBAY coded in that code?

- a. CPOCBZ
- b. CPNCBZ
- c. CQOCBZ
- d. CPNCBX

Solution. Each letter in the word is moved one step forward to obtain the corresponding letter of the code.

Answer. b

Test Answer

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

Test Name	Last Alphabet -2[OIR]	Total Questions	10
------------------	-----------------------	------------------------	----

1. Write the last alphabet of the word which comes last in the dictionary.

Quota, Quiz, Quit, Quirk

Answer. a

2. Write the last alphabet of the word which comes last in the dictionary.

Raffle, Read, Recoil, Rebel

Answer. l

3. Write the last alphabet of the word which comes last in the dictionary.

Short, Shape, Shade, Sense

Answer. t

4. Write the last alphabet of the word which comes last in the dictionary.

Thanks, Tilt, Thud, Till

Answer. t

5. Write the last alphabet of the word which comes last in the dictionary.

Trough, Try, Tussle, Tune

Answer. e

6. Write the last alphabet of the word which comes last in the dictionary.

Unease, Undone, Unheard, Unity

Answer. y

7. Write the last alphabet of the word which comes last in the dictionary.

Van, Vendetta, Vary, Vase

Answer. a

8. Write the last alphabet of the word which comes last in the dictionary.

Worth, Wealth, Wave, Wasp

Answer. h

9. Write the last alphabet of the word which comes last in dictionary.

Echo, Edge, Eerie, Effort

Answer. t

10. Write the last alphabet of the word which comes last in dictionary.

Grade, Glint, Glare, Gig

Answer. e

Test Answer

1. (a) **2.** (l) **3.** (t) **4.** (t) **5.** (e) **6.** (y) **7.** (a) **8.** (h) **9.** (t) **10.** (e)

Test Name	Last Alphabet -1[OIR]	Total Questions	10
-----------	-----------------------	-----------------	----

- 1.** Write the last alphabet of the word which comes last in the dictionary.

Gulp, Guide, Hail, Gym

Answer. l

- 2.** Write the last alphabet of the word which comes last in the dictionary.

Half, Hand, Hard, Handy

Answer. d

- 3.** Write the last alphabet of the word which comes last in the dictionary.

Inch, Imprint, Imply, Impair

Answer. h

- 4.** Write the last alphabet of the word which comes last in the dictionary.

Jam, Japanese, Jar, Jog

Answer. g

- 5.** Write the last alphabet of the word which comes last in the dictionary.

Kiss, Knack, Kite, Kit

Answer. k

- 6.** Write the last alphabet of the word which comes last in the dictionary.

Lend, Level, Loan, Lid

Answer. n

- 7.** Write the last alphabet of the word which comes last in the dictionary.

Menace, Merit, Mode, Mob

Answer. e

8. Write the last alphabet of the word which comes last in the dictionary.

Nutritious, Nutrition, Nut, Norm

Answer. s

9. Write the last alphabet of the word which comes last in the dictionary.

Oven, Ozone, Owen, Oxygen

Answer. e

10. Write the last alphabet of the word which comes last in the dictionary.

Pack, Person, Phase, Phrase

Answer. e

Test Answer

1. (l) **2. (d)** **3. (h)** **4. (g)** **5. (k)** **6. (n)** **7. (e)** **8. (s)** **9. (e)** **10. (e)**

Test Name	Last Digit -1[OIR]	Total Questions	10
-----------	--------------------	-----------------	----

1. Write the last digit of the smallest number from the following given

7547, 5792, 7203, 5934

Answer. 2

2. Write the last digit of the smallest number from the following given

467922, 46 8910, 461093, 497252

Answer. 3

3. Write the last digit of the smallest number from the following given

95278, 95231, 95715, 95700

Answer. 1

4. Write the last digit of the smallest number from the following given

82348, 81937, 80972, 80168

Answer. 8

5. Write the last digit of the smallest number from the following given

64789, 197283, 9862, 87252

Answer. 2

6. Write the last digit of the smallest number from the following given

5492888, 9137584, 5492868, 918364

Answer. 8

7. Write the last digit of the smallest number from the following given

3946, 3912, 3901, 3902

Answer. 1

8. Write the last digit of the smallest number from the following given

42018, 42011, 42002, 40012

Answer. 2

9. Write the last digit of the smallest number from the following given

74028, 72040, 72038, 73020

Answer. 8

10. Write the last digit of the smallest number from the following given

50183, 50202, 50999, 50284

Answer. 3

Test Answer

1. (2) **2. (3)** **3. (1)** **4. (8)** **5. (2)** **6. (8)** **7. (1)** **8. (2)** **9. (8)** **10. (3)**

1. Which word will come last in the dictionary?

- a. Quiet
- b. Quick
- c. Queue
- d. Quote

Answer. d

2. Which word will come last in the dictionary?

- a. Remote
- b. Relish
- c. Rely
- d. Remedy

Answer. a

3. Which word will come last in the dictionary?

- a. Saga
- b. Show
- c. Scar
- d. Shot

Answer. b

4. Which word will come last in the dictionary?

- a. Taste
- b. Team
- c. Tape
- d. Tank

Answer. b

5. Which word will come last in the dictionary?

- a. Unique
- b. Unit
- c. Update

d. Union

Answer. c

6. Which word will come last in the dictionary?

a. Vault

b. Vanity

c. Value

d. Veer

Answer. d

7. Which word will come last in the dictionary?

a. Weak

b. Wake

c. Walk

d. Wear

Answer. d

8. Which word will come last in the dictionary?

a. Yell

b. Yes

c. Yelp

d. Yen

Answer. b

9. Which word will come last in the dictionary?

a. Zip

b. Zone

c. Zoo

d. Zoology

Answer. d

10. Which word will come last in the dictionary?

a. Ad

b. Acid

c. Acne

d. Act

Answer. a

Test Answer

- | | | | | | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| 1. (d) | 2. (a) | 3. (b) | 4. (b) | 5. (c) | 6. (d) | 7. (d) | 8. (b) | 9. (d) | 10. (a) |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|

1. Which word will come last in the dictionary?

- a. Adore
- b. Alike
- c. Alert
- d. Agent

Answer. b

2. Which word will come last in the dictionary?

- a. Bout
- b. Boost
- c. Brick
- d. Box

Answer. c

3. Which word will come last in the dictionary?

- a. Clap
- b. Cite
- c. Circle
- d. Clear

Answer. d

4. Which word will come last in the dictionary?

- a. Downfall
- b. Dock
- c. Dive
- d. Domain

Answer. a

5. Which word will come last in the dictionary?

- a. Entry
- b. Envy
- c. envisage

d. Envy

Answer. b

6. Which word will come last in the dictionary?

a. Fax

b. Feat

c. Feed

d. Fault

Answer. c

7. Which word will come last in the dictionary?

a. Grasp

b. Graze

c. Grey

d. Gram

Answer. c

8. Which word will come last in the dictionary?

a. Hiss

b. High

c. Hiccup

d. Hike

Answer. a

9. Which word will come last in the dictionary?

a. Impose

b. Incense

c. Impress

d. Improve

Answer. b

10. Which word will come last in the dictionary?

a. Jack

b. Jam

c. Jeans

d. jog

Answer. d

11. Which word will come last in the dictionary?

a. Lease

b. Ledge

c. Left

d. Learn

Answer. c

12. Which word will come last in the dictionary?

a. Mist

b. Mind

c. Minor

d. Miss

Answer. a

13. Which word will come last in the dictionary?

a. Novice

b. Numerous

c. Novel

d. Number

Answer. b

14. Which word will come last in the dictionary?

a. Obstruct

b. Offence

c. Offend

d. Object

Answer. c

15. Which word will come last in the dictionary?

a. Pepper

b. Perch

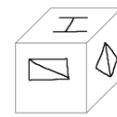
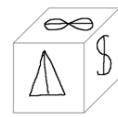
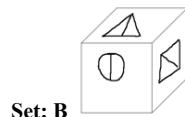
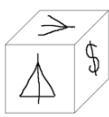
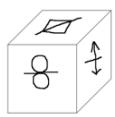
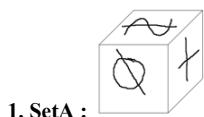
c. Perfect

d. Phone

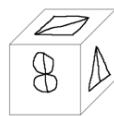
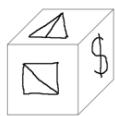
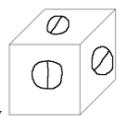
Answer. d

Test Answer

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



From the following cubes which cube matches with set A



Cubes A, B and C respectively

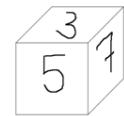
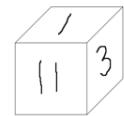
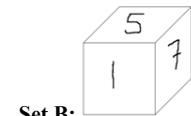
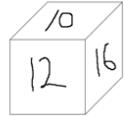
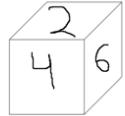
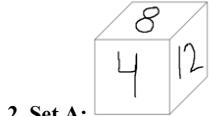
a. A

b. B

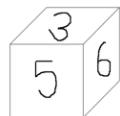
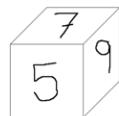
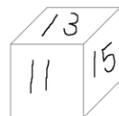
c. C

Solution. In Cube B right side face has similarity with set A cube

Answer. b



From the following cubes which cube matches with set A



Cubes A, B and C respectively

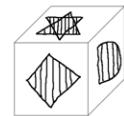
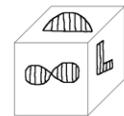
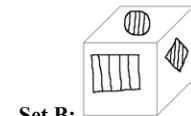
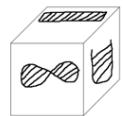
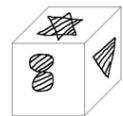
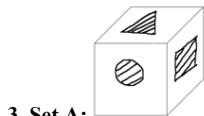
a. A

b. B

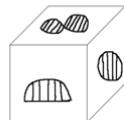
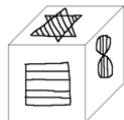
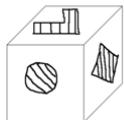
c. C

Solution. Cube C has one even number

Answer. c



From the following cubes which cube matches with set A

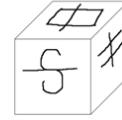
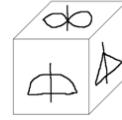
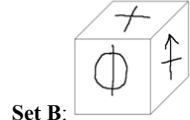
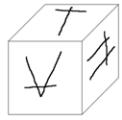
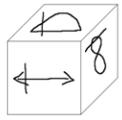
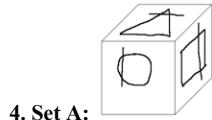


Cubes A, B and C respectively

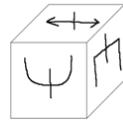
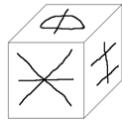
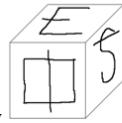
- a. A
- b. B
- c. C

Solution. Upper side of the cube C has stripes matching those of Set -A

Answer. c



From the following cubes which cube matches with set A



Cubes A, B and C respectively

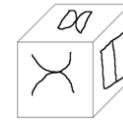
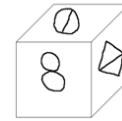
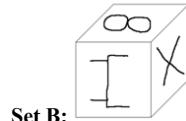
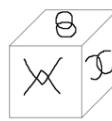
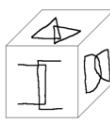
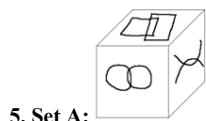
- a. A
- b. B
- c. C

Solution. Set A: diagram have been cut away from the center towards one of the sides.

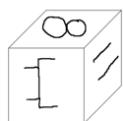
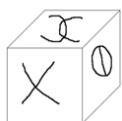
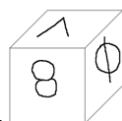
Set B: Diagram have been cut from the middle

Cube A, right side face has a cut in the upper half similar to the pattern in Set A

Answer. a



From the following cubes which cube matches with set A



Cubes A, B and C respectively

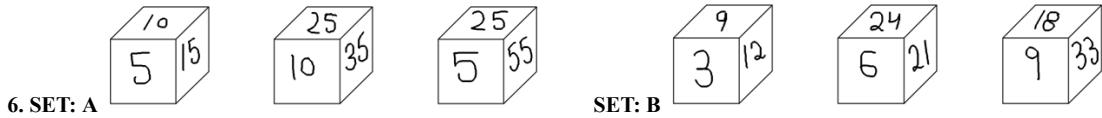
a. A

b. B

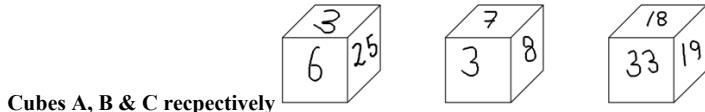
c. C

Solution. In cube B upper side face has overlapping pattern.

Answer. b



From the following cubes which cube matches with set A



a. A

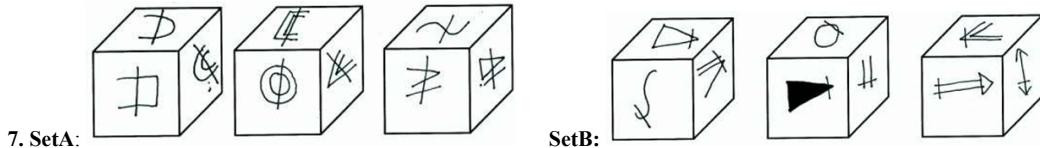
b. B

c. C

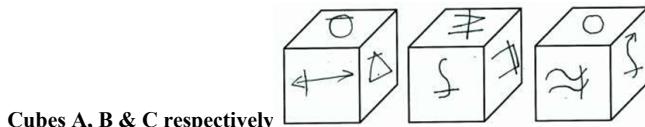
Solution. Set A has multiple of five,
Set B has multiple of 3

In **cube A**, left has 25 which is a multiple of 5.

Answer. a



From the following cubes which cube matches with set A



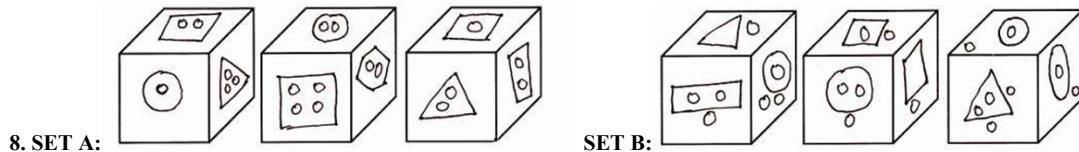
a. A

b. B

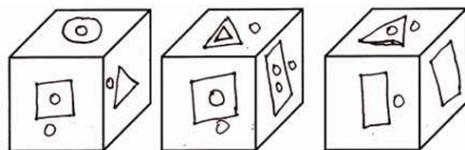
c. C

Solution. In set A, there is a cut in the middle of each figure
In set B, there is a cut at one of the sides.
In **Cube B** upper side has a cut in the middle.

Answer. b



From the following cubes which cube matches with set A



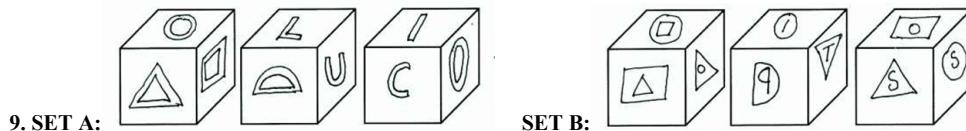
Cubes A, B and C respectively

- a. A
- b. B
- c. C

Solution. In set A there is at least 1 circle inside the figure
In set B there is at least 1 circle outside the figure.

In **cube A** upper side there is one figure with one circle inside.

Answer. a



From the following cubes which cube matches with set A

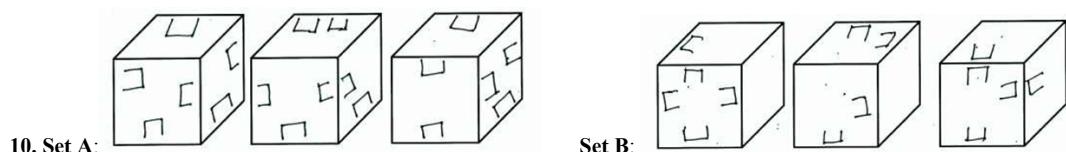


Cubes A, B and C respectively :

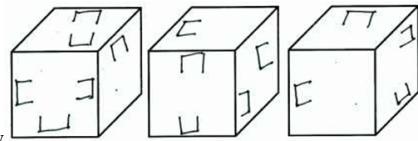
- a. A
- b. B
- c. C

Solution. In Set A: the diagram is kind of repeated twice,
In set B: there is 1 figure inside of the closed figures.
Cube C upper face has a diagram which repeats twice, similar to set A

Answer. c



From the following cubes which cube matches with set A



Cubes A, B and C respectively

- a. A
- b. B
- c. C

Solution. Set A: Two arms are facing towards the edges and away from the center.
Set B: Two arms are facing away from the edges and towards the center.

Cube B: right side has two figures in which the two arms are facing towards the edges and away from center.

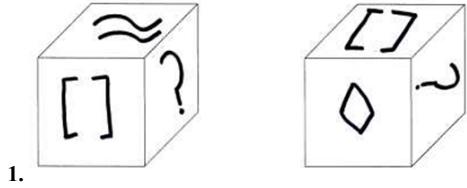
Answer. b

Test Answer

1. (b) 2. (c) 3. (c) 4. (a) 5. (b) 6. (a) 7. (b) 8. (a) 9. (c) 10. (b)

cubes :

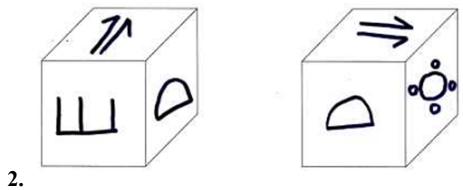
Find if the following cubes are similar or not, choose yes or no from the option.



- a. yes
- b. no

Solution. Yes: the cube has been rotated by 90 degree toward the north. hiding one of the visible sides while showing a new one.

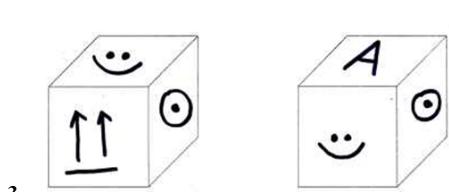
Answer. a



- a. yes
- b. no

Solution. Yes: the cube has been rotated by 90 degree toward the east. hiding one of the visible sides while showing a new one.

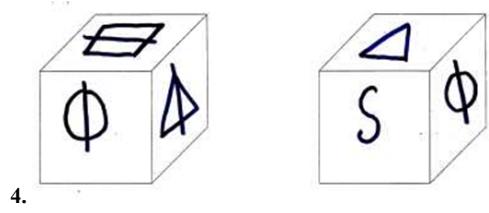
Answer. a



- a. yes
- b. no

Solution. Yes: the cube has been rotated by 90 degree toward the south. hiding one of the visible sides while showing a new one.

Answer. a



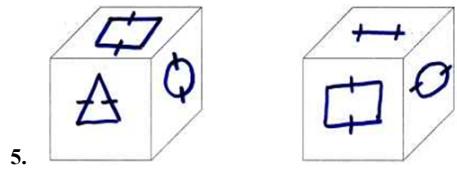
4.

a. yes

b. no

Solution. No: Two different symbols

Answer. b



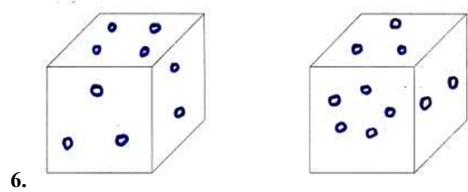
5.

a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the south. hiding one of the visible sides while showing a new one.

Answer. a



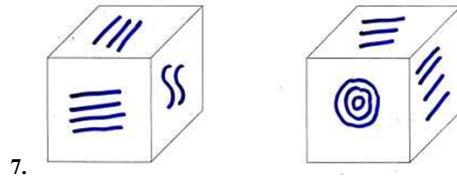
6.

a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the north. hiding one of the visible sides while showing a new one.

Answer. a



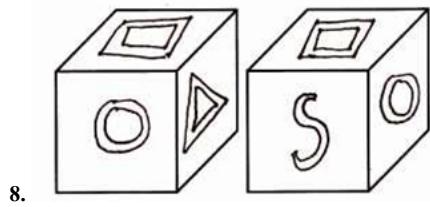
7.

a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the west. hiding one of the visible sides while showing a new one.

Answer. a

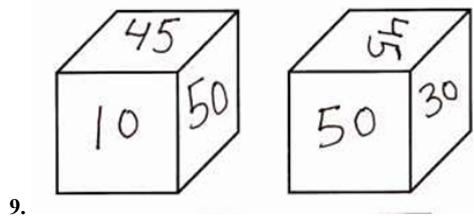


a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the east. hiding one of the visible sides while showing a new one.

Answer. a

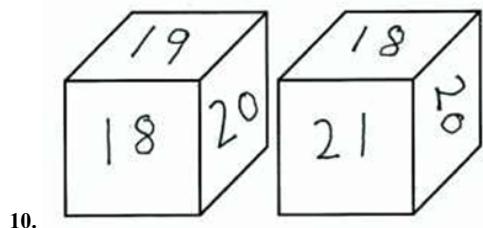


a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the west. hiding one of the visible sides while showing a new one.

Answer. a



a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the north. hiding one of the visible sides while showing a new one.

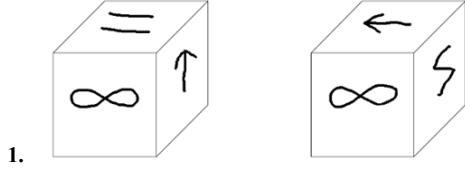
Answer. a

Test Answer

1. (a) 2. (a) 3. (a) 4. (b) 5. (a) 6. (a) 7. (a) 8. (a) 9. (a) 10. (a)

cubes :

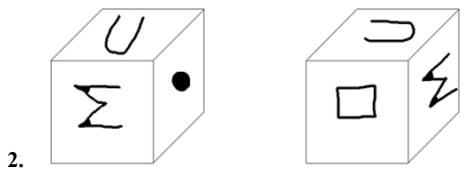
Find if the following cubes are similar or not, choose yes or no from the option.



- a. yes
- b. no

Solution. no - the cube has been rotated by 90 degree toward the west. While it may look that two of the symbols are same but if we look at the symbol of , it has not rotated accordingly by 90 degree.

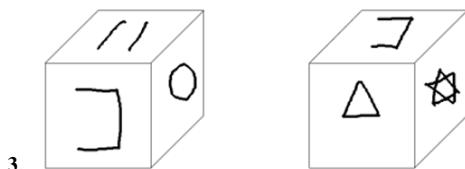
Answer. b



- a. yes
- b. no

Solution. yes - the cube has been rotated by 90 degree toward the east. hiding one of the visible sides while showing a new one.

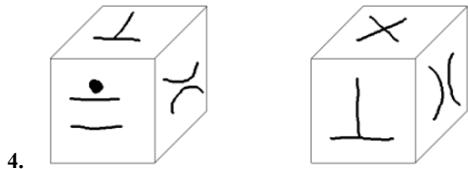
Answer. a



- a. yes
- b. no

Solution. no- even though it looks as if the cube has been rotated by 90 degree north but two of the symbol of clearly different.

Answer. b

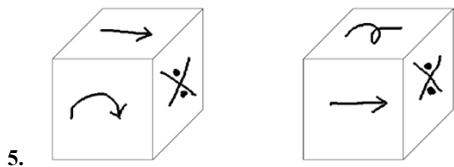


a. yes

b. no

Solution. yes - the cube has been rotated by 90 degree toward the south. hiding one of the visible sides while showing a new one.

Answer. a

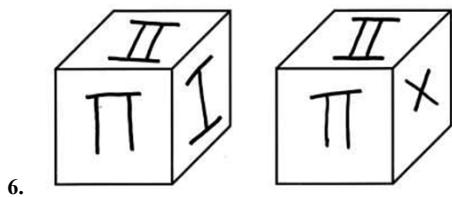


a. yes

b. no

Solution. No- even thought it looks as if the cubes have been rotated by 90 degree to south, if we look at the diagram with two dots, the diagram has not rotated by 90 degree.

Answer. b

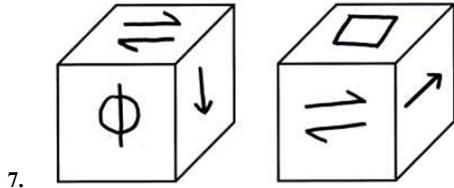


a. yes

b. no

Solution. No, even though two of the symbols are same, their orientation have not changed whereas a new symbol has emerged. We can say that this is a different cube.

Answer. b

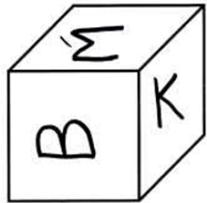
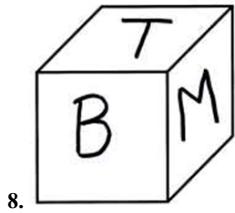


a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the south. hiding one of the visible sides while showing a new one.

Answer. a

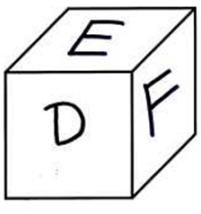
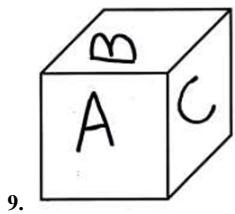


a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the west. hiding one of the visible sides while showing a new one.

Answer. a

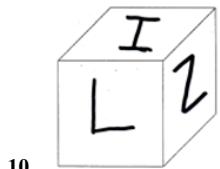


a. yes

b. no

Solution. No: None of the symbols match.

Answer. b



a. yes

b. no

Solution. No: Even though two of the symbols are same, orientation of 'I' has not changed. It is in the same direction.

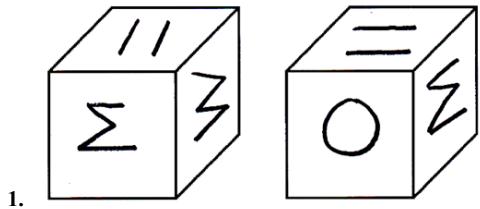
Answer. b

Test Answer

1. (b) 2. (a) 3. (b) 4. (a) 5. (b) 6. (b) 7. (a) 8. (a) 9. (b) 10. (b)

cubes :

Find if the following cubes are similar or not, choose yes or no from the option.

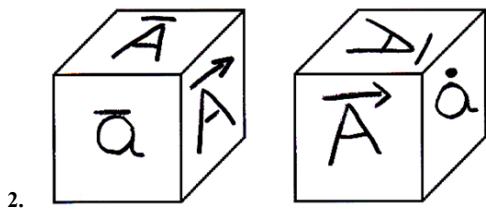


a. yes

b. no

Solution. yes - the cube has been rotated by 90 degree toward the east. hiding one of the visible sides while showing a new one.

Answer. a

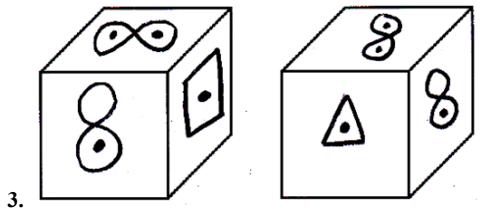


a. yes

b. no

Solution. yes - the cube has been rotated by 90 degree toward the west. hiding one of the visible sides while showing a new one.

Answer. a

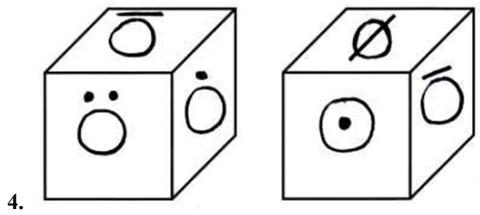


a. yes

b. no

Solution. yes - the cube has been rotated by 90 degree toward the east. hiding one of the visible sides while showing a new one.

Answer. a

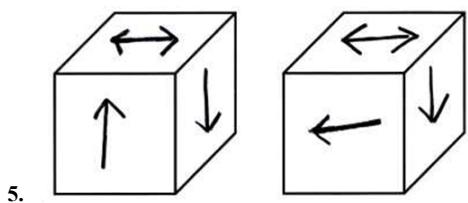


a. yes

b. no

Solution. No- Clearly two of the symbols are different and as a result we cannot say conclusively if the two symbols are similar.

Answer. b

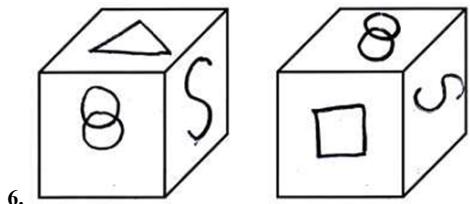


a. yes

b. no

Solution. No- even though of the symbols remain same but there orientation does not change while the arrow direction changes in the front face

Answer. b

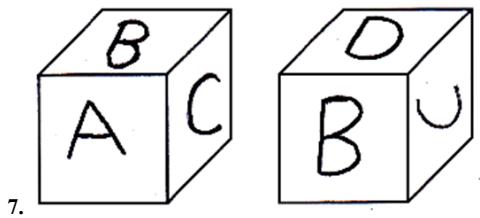


a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the north. hiding one of the visible sides while showing a new one.

Answer. a

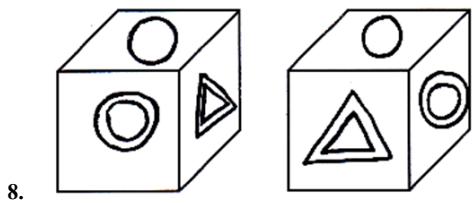


a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the south. hiding one of the visible sides while showing a new one.

Answer. a

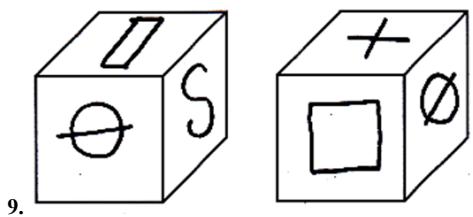


a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the east. hiding one of the visible sides while showing a new one.

Answer. a

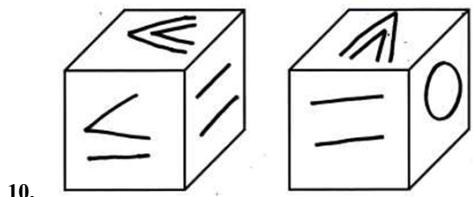


a. yes

b. no

Solution. No: the symbols in these two cubes just do not match

Answer. b

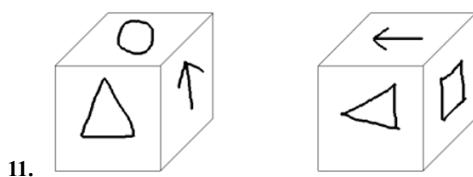


a. yes

b. no

Solution. Yes: the cube has been rotated by 90 degree toward the west. hiding one of the visible sides while showing a new one.

Answer. a

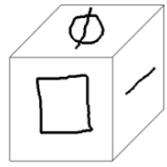
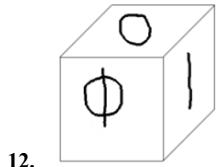


a. yes

b. no

Solution. yes - cube is rotated by 90 degree towards the west. hiding one of the visible sides while showing a new one

Answer. a

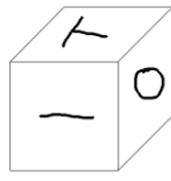
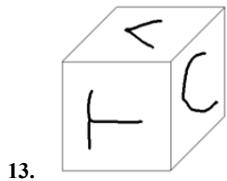


a. yes

b. no

Solution. yes - cube is rotated by 90 degree towards the north side. hiding one of the visible sides while showing a new one

Answer. a

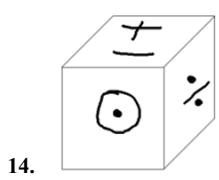


a. yes

b. no

Solution. no- Two of the symbols are different, hence we can say that they are not similar. or we not sure if they are equal.

Answer. b

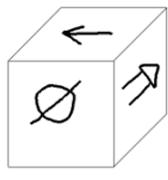
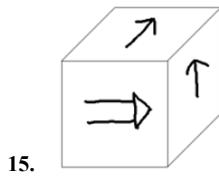


a. yes

b. no

Solution. yes - the cube has been rotated by 90 degree toward the south. hiding one of the visible sides while showing a new one

Answer. a



a. yes

b. no

Solution. yes - the cube has been rotated by 90 degree toward the east. hiding one of the visible sides while showing a new one.

Answer. a

Test Answer

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

true false or absurd :
Direction for the question.

A statement has been provided in the question and choose from the options if the statement is true, false, probable or absurd.

1. Milky Way is a galaxy from which we get milk when it rains

- a. true
- b. false
- c. probable
- d. absurd

Answer. d

2. Today's students are not as obedient as they were in older days

- a. true
- b. false
- c. probable
- d. absurd

Answer. c

3. Today's youth believe in late marriage

- a. true
- b. false
- c. probable
- d. absurd

Answer. c

4. France is one of the member states of European Union.

- a. true
- b. false
- c. probable
- d. absurd

Answer. a

5. A rainbow is a bow that is made of colorful wood.

- a. true

- b.** false
- c.** probable
- d.** absurd

Answer. d

6. India will win next cricket world cup.

- a.** true
- b.** false
- c.** probable
- d.** absurd

Answer. c

7. India is world's most populated country in the world

- a.** true
- b.** false
- c.** probable
- d.** absurd

Answer. b

8. Paper which is widely used for writing purpose is an organic material.

- a.** true
- b.** false
- c.** probable
- d.** absurd

Answer. a

9. Summer season starts in India starts in the month of November.

- a.** true
- b.** false
- c.** probable
- d.** absurd

Answer. b

10. Automobile is a kind of phone used for voice communication.

- a.** true
- b.** false
- c.** probable
- d.** absurd

Answer. d

□

11. Today's generation is more corrupt when compared to olden days.

- a. true
- b. false
- c. probable
- d. absurd

Answer. b

12. Coal is also called as black gold because it is made of gold which is black in color.

- a. true
- b. false
- c. probable
- d. absurd

Answer. d

Statement justification :

Select the option which justifies the given statement.

13. **Statement:** India is a secular country because

- a. India's prime minister is a secular person
- b. India's people are secular
- c. Indian constitution is secular
- d. Cause it is a democratic country

Answer. c

14. Statement: A fish can breathe in water because

- a. Fish don't have a nose
- b. Fish don't need oxygen to live
- c. Fish don't breathe
- d. Fish have gills which helps them in breathing in water.

Answer. d

15. **Statement:** A large number of highly educated youth migrates every year from India to western country because

- a. They don't want to live in India
- b. In search of suitable job opportunity
- c. India is highly populated
- d. They don't like Indian climate

Answer. b

16. **Statement:** plastic is a non-biodegradable material because

a. plastic is not an organic material

b. microbes don't like its taste

c. It is acidic in nature

d. It grows naturally

Answer. a

17. Statement: India has 28 states because

a. India was created by joining 28 states in 1947

b. India has a federal government,

c. it was more difficult to govern one large state

d. people were not ready to live in a single state

Answer. b

18. Statement: Many national parks have been created in India because

a. National parks have lots of forest area, it provides clean air.

b. National parks have a lot of open space

c. A national park is a park in use for conservation purposes.

d. National parks have rivers.

Answer. c

19. Statement: Renewable sources of energy must be used because

a. Renewable energy is cheap

b. Renewable sources of energy are environmental friendly.

c. fossil fuel is costly

d. Fossil fuel will be finished in near future

Answer. b

20. Statement: Indian government has stopped telegram service because

a. Because it was an outdated service, no longer useful

b. It took a lot of time for a telegram to reach its destination

c. People were not using this service

d. Telegram department was causing huge financial loses for telecommunication ministry.

Answer. d

Test Answer

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

Test Question Language:- ENGLISH

1. By how many degrees a minute-hand rotates in 45 minutes?

- a. 45°
- b. 90°
- c. 180°
- d. 270°

Solution. Minute-hand covers 360° in 1 hour that is one complete rotation. or

$$\frac{360}{60} = 6^\circ/\text{minute}$$

Hence in 45 minutes it will rotate by $45 \times 6 = 270^\circ$

Answer. d

2. Degree covered by hour- hand in 12 hours is

- a. 45°
- b. 90°
- c. 180°
- d. 360°

Solution. In 12 hour an hour-hand rotates by 360° i.e. one complete revolution.
Hence in one hour it does

$$\frac{360}{12} = 30^\circ/\text{hour}$$

Therefore in 12 hours it will cover, $30^\circ \times 12 = 360^\circ$

Answer. d

3. What is the angle covered by a hour-hand between 8 a.m and 5 p.m

- a. 45
- b. 95
- c. 270
- d. 360

Solution. In one hour, hour- hand covers 30° , hence in 9 hours it will cover $30^\circ \times 9 = 270^\circ$

Answer. c

4. By what degree has the hour-hand rotated between 1 : 40 pm and 5 p.m.

- a. 100
- b. 110

c. 90

d. 150

Solution. From 1 : 40 pm to 5 p.m the time covered is 3 hours and 20 minutes.

In 60 minutes, hours-hand covers 30° hence in 20 minute it will cover,

$$\frac{30}{60} \times 20 = 10^\circ$$

In 3 hours, hour-hand will cover $3 \times 30 = 90$ degree

Hence in total, hour-hand will cover $90 + 5 = 100^\circ$ degrees

Answer. a

5. What is the angle between the two hands of a clock, when the clock shows 3 hours 25 minutes?

a. 45. 5°

b. 46°

c. 46.5°

d. 47.5°

Solution. At 3 hour and 25 minute

If we take 12 o'clock as point of reference

Minute-hand has covered

$$25 \times 6 = 150^\circ$$

Hour-hand has covered

$$3 \times 30 + 30 \times \frac{25}{60} = 102.5^\circ$$

Hence difference in angle

$$= 150 - 102.5 = 47.5^\circ$$

Answer. d

6. The angle between the minute hand and the hour hand of a clock when the time is 4:20, is

a. 0°

b. 5°

c. 10°

d. 20°

Solution. Angled covered by hour hand in

$$4 \text{ hour} + 20 \text{ min} = 4 + \frac{20}{60} = \frac{13}{3}$$

$$\frac{360^\circ}{12} \times \frac{13}{3} = 130^\circ$$

Angle covered by minute hand in 20 min

$$= \frac{(360^\circ)}{60} \times 20 = 120^\circ$$

Therefore the angles between the hands is
 $130^\circ - 120^\circ = 10^\circ$

Answer. c

7. A hunter kills half of the birds on a particular tree after some time he comes back and kills one-third of the remaining birds, if 10 birds are left in the end then what was the original number of birds on the tree.

- a. 10
- b. 20
- c. 30
- d. 40

Solution. Let x be the original number of birds

Birds left after the hunter killed half of them = $x/2$

Bird left after killing one-third of the remaining =

$$= \frac{x}{2} - \frac{1}{3} \times \frac{x}{2} = \frac{x}{2} \left(\frac{2}{3} \right) = \frac{x}{3}$$

Now $x/3 = 10$

Hence, $x = 30$

Answer. c

8. A hunter kills half and one birds of the total which were sitting on a particular tree after some time he comes back and again kills half and one birds of the remaining birds. If 3 birds are left on the tree then what was the original number of birds on the tree.

- a. 9
- b. 14
- c. 18
- d. 20

Solution. Let x be the original number of birds on the tree

Birds left after the hunter kills half and one of the total birds

$$= \frac{x}{2} - 1$$

Birds left after the hunter again kills half and one of the remaining

$$\frac{1}{2} \left(\frac{x}{2} - 1 \right) - 1$$

Birds left at the end = 3
Hence

$$\frac{1}{2} \left(\frac{x}{2} - 1 \right) - 1 = 3$$

$$x = 18$$

Hence the initial numbers of birds on the tree were 18.

Answer. c

9. Free notebooks were distributed equally among children of a class. The number of notebooks each child got was one-eighth of the number of children. Had the number of children been half, each child would have got 16 notebooks. Total how many notebooks were distributed?

- a. 312
- b. 432
- c. 512
- d. 720

Solution. Let total number of children be x .
Then

$$x \times \frac{1}{8}x = \frac{x}{2} \times 16 \rightarrow x = 64$$

∴ number of notebooks

$$\frac{1}{8}x^2 = \left(\frac{1}{8} \times 64 \times 64\right) = 512$$

Answer. c

10. A bag contains 9 sand bags and these 9 sand bags contain 3 smaller bags each. What is the total number smaller bags.

- a. 3
- b. 9
- c. 27
- d. 81

Solution. $9 \times 3 = 27$

Answer. c

11. Ram, Ramesh and Rakesh share out a certain sum of money between them. Ram gets 35%, Ramesh gets $\frac{3}{5}$ and Rakesh gets Rs 125. How much is the original sum of money?

- a. 1500
- b. 1800
- c. 2000
- d. 2500

Solution. $35\% = \frac{7}{20}$ and $\frac{3}{5} = \frac{12}{20}$ ie $\frac{19}{20}$ in total

Ramesh's share of Rs 125 must therefore be $\frac{1}{20}$

Total sum of money, therefore, is $Rs 125 \times 20 = 2,500$

Answer. d

12. A sum of Rs. 1360 has been divided among A, B and C such that A gets $\frac{2}{3}$ of what B gets and B gets $\frac{1}{4}$ of what C gets. B's share is:

- a. 150
- b. 200
- c. 240
- d. 300

Answer. c

13. One-third of Mohan's savings in National Savings Certificate is equal to one-half of his savings in Public Provident Fund. If he has Rs. 1,50,000 as total savings, how much has he saved in Public Provident Fund ?

- a. 30000
- b. 60000
- c. 45000
- d. 70000

Answer. b

14. A, B, C hired a car for Rs 520 and used it for 7, 8 and 11 hours respectively. Hire charges paid by B were:

- a. Rs 140
- b. Rs 160
- c. Rs 180
- d. Rs 220

Answer. b

15. P and Q started a business investing Rs 85 000 and Rs 15 000 respectively. In what ratio the profit earned after 2 years be divided between P and Q respectively?

- a. 3:4
- b. 3:5
- c. 15:23
- d. None of these

Answer. d

Test Answer

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

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