



# SSC - CHSL

←—————→  
**COMBINED HIGHER SECONDARY LEVEL**

**STAFF SELECTION COMMISSION**

**VOLUME – IV**

# Reasoning



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## CLASSIFICATION

The Phenomenon of grouping Various Objects On basis of their Common Properties is known as Classification. In this topic, we find a Common relation among option of question and One Out of all does not share the Same relation and that one Option will be Considered.

⇒ Type 1 - Alphabet Classification -

→ Pick odd one out from the following -

- (1) (a) ABZY  
 (b) BCYX  
 (c) CDVW  
 (d) DEVU

→ (c) CDVW is odd from the following.

$$\begin{array}{c} A \\ +1 \downarrow \\ B \end{array} \text{ and } \begin{array}{c} Z \\ \downarrow -1 \\ Y \end{array} \quad (\text{Here, we are Comparing option (a) \& (b).})$$

$$\begin{array}{c} B \\ +1 \downarrow \\ C \end{array} \text{ and } \begin{array}{c} Y \\ \downarrow -1 \\ X \end{array} \quad \underline{\text{Similarly :- Comparing (c) and (d)}}$$

$D \xrightarrow{-1} E \text{ and } V \xrightarrow{-1} U$

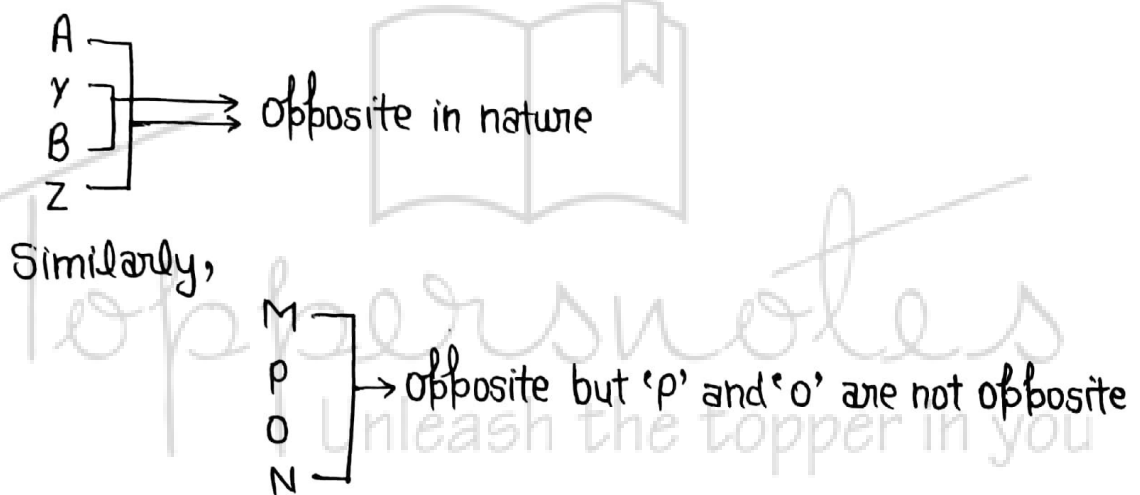
But if is

$C \xrightarrow{+1} D \text{ and } V \xrightarrow{+1} W$

- (ii) (a) AYBZ  
 (b) BXCy  
 (c) DVEW  
 (d) MPON.

→ (d) is Odd from the following option.

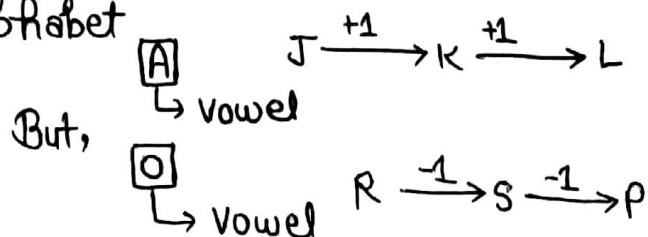
there are two pairs of opposite Letters of English alphabet.



- (iii) - (a) AJKL  
 (b) IBCD  
 (c) ORDP  
 (d) UFGH

→ (c) is Odd from the following option.

Starting alphabet of Option is vowel and rest letters are in alphabetical Order but in Option after first letter it is in reverse order of alphabet



- (iv) - (a) X  
(b) Y  
(c) D  
(d) H

→ Here, We are Comparing the alphabets with their Value in the English alphabet.

$$X = 24$$

$$Y = 25$$

$$D = 4$$

$$H = 8$$

All 3 are even except Y which 25 that is odd.

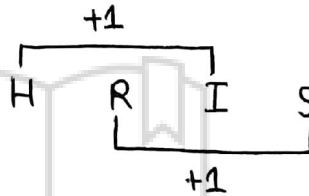
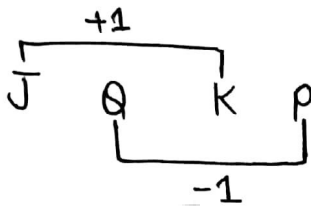
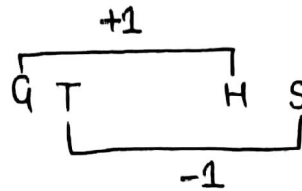
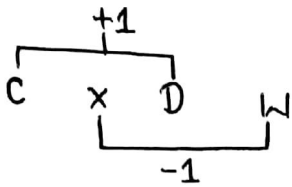
- (v) - (a) N  
(b) Z  
(c) T  
(d) H

→ Here, we compare on the basis of the line segment. Except Y all are consist of 3 line segment but 'T' is of 2 line segment. Also mirror, water image of all three appears to be an identical but not 'T' so, our answer will be 'T'.

- (vi) - (a) 20 S  
(b) 20 Z  
(c) 22 V  
(d) 24 X

→ All alphabets are having correct place value from the English alphabets but 'S' contains 20 which is wrong. So, option (a) is our answer.

- (vii) -
- (a) CXDW
  - (b) QTHS
  - (c) JSKP
  - (d) HRIS.



Except 'HRIS' all three options contains 1<sup>st</sup> and 3<sup>rd</sup> letter and 2<sup>nd</sup> & 4<sup>th</sup> letter as opposite from english alphabet in 'HRIS' 1<sup>st</sup> and 4<sup>th</sup> and 3<sup>rd</sup> are opposite, so HRIS is our option as an answer.

- (viii) -
- (a) Hub = 82110
  - (b) Man = 13114
  - (c) Jug = 10217
  - (d) Ram = 18118.

→ Place Value of Letters in english alphabets ✓

M a n  
↓ ↓ ↓  
13 1 14

H u b  
↓ ↓ ↓  
8 21 2

J u g  
↓ ↓ ↓  
10 21 7

R a m  
↓ ↓ ↓  
18 1 13



- (1x) -
- (a) bbb, fff, jjj
  - (b) mmm, qqq, ttt
  - (c) ccc, ggg, kkk
  - (d) kkk, ooo, sss.

→ bbb  $\xrightarrow{+4}$  fff  $\xrightarrow{+4}$  jjj

mmm  $\xrightarrow{+4}$  qqq  $\xrightarrow{-9}$  ttt

ccc  $\xrightarrow{+4}$  ggg  $\xrightarrow{+4}$  kkk

kkk  $\xrightarrow{+4}$  ooo  $\xrightarrow{+4}$  sss

So, Our option (b) is correct.

- (X) -
- (a) AKWE
  - (b) PNTD
  - (c) LCUF
  - (d) JHMX

→ Except option (d) all other options contains atleast one vowels.

## Test Yourself -

- |   |         |          |         |         |
|---|---------|----------|---------|---------|
| ① | Ⓐ UZDQI | Ⓑ JO SVX | Ⓒ RWACE | Ⓓ FKORT |
| ② | Ⓐ deba  | Ⓑ hgfa   | Ⓒ Pqrs  | Ⓓ rqpO  |
| ③ | Ⓐ FAjL  | Ⓑ Pxtv   | Ⓒ knPR  | Ⓓ CeqI  |
| ④ | Ⓐ SSA   | Ⓑ RMSA   | Ⓒ RUSA  | Ⓓ NASA  |
| ⑤ | Ⓐ NLFOP | Ⓑ 83789  | Ⓒ DFLST | Ⓓ KZM7F |

Answers:-

- ① - Ⓒ  
 ② - Ⓒ  
 ③ - Ⓒ  
 ④ - Ⓒ  
 ⑤ - Ⓑ

⇒ Type-2 :- Word Based Classification:-

>> Pick the Out One which is odd.

- (i) Ⓐ Withdrawal  
 Ⓑ Deduction  
 Ⓒ Neurologist  
 Ⓓ Educationist

⇒ 'Neurologist' is related to medical Profession Others are related to the Study of Social Science.

- (ii) Ⓐ Withdrawal  
 Ⓑ Deduction  
 Ⓒ Deposit  
 Ⓓ Debit

⇒ Except 'Deposit' all other words are relative synonyms of one another.

- (iii) -
- (a) Glue
  - (b) Cement
  - (c) Paste
  - (d) Oil.

⇒ 'Except' 'Oil' all others are used to join something.

- (iv) -
- (a) Sports : Ground
  - (b) Cinema : Screen
  - (c) Drama : Stage
  - (d) Rubber : Erase

⇒ Sports are Organised in ground, Cinema are shown On Screen On Screen. Drama is played On Stage, But "rubber" is used to erase writings on paper.

- (v) -
- (a) Swing
  - (b) Googly
  - (c) Bouncer
  - (d) Yorker

⇒ Except 'Googly' all other terms are related to fast bowling in game of Cricket 'Googly' is related to spin bowling.

- (vi) -
- (a) RIM
  - (b) NOKIA
  - (c) MTS
  - (d) BSNL

⇒ Except 'NOKIA' all others are telecommunication Service Provides.

- (vii) (a) CINTHOL  
(b) RIN  
(c) PEARS  
(d) HAMAM

⇒ Except 'RIN', all the others are bathing Soaps. Rin is a detergent bar used for cleaning clothes.

- (vii) - (a) July  
(b) October  
(c) December  
(d) November

⇒ Except 'November' all others months have 31 days each.

- (ix) - (a) Autobiography  
(b) Malayalam  
(c) Dictionary  
(d) Intelligence

⇒ 'Malayalam' is a language while all others are kind of work or quality.

- (x) - (a)  
(b)  
(c)  
(d)

⇒ Except 'Biology - Botany' rest of others are the Scientific Study of the Second is collect the first in all the pairs

- (xi) -
- (a) M.L.A
  - (b) President
  - (c) Prime minister
  - (d) Minister

⇒ President is the executive head of the nation, President is not elected directly by the people of India.

- (xii) -
- (a) Gujarat
  - (b) Karnataka
  - (c) Maharashtra
  - (d) Arunachal Pradesh

⇒ 'Arunachal Pradesh' is a northern - eastern State of India.

- (xiii) -
- (a) Governor
  - (b) Lawyer
  - (c) Legislator
  - (d) Mayor

⇒ Except 'Mayor', Legislator & Lawyer are elected representation of people and Governor is appointed by the President.

- (xiv) -
- (a) Lieutenant General
  - (b) Major
  - (c) Colonel
  - (d) Commodore

⇒ Except 'Commodore' rest of the options are rank of the Indian Army.

- (xv) -
- (a) Yellow Orange
  - (b) Red Yellow
  - (c) Red Orange
  - (d) Yellow Green.

⇒ Except 'yellow Orange' in all the other options, there is one primary colour out of 'Red, Green, Blue' as called primary colour or basic colour.

Red + Green = Yellow Colour.

## Test Yourself :-

- ① - (a) Internet Explorer  
(b) Chrome  
(c) Google  
(d) Firefox.
- ② - (a) Soldier - Barrack  
(b) Principal - School  
(c) Singer - Chorus.  
(d) Artist - Troupe
- ③ - (a) Influenza  
(b) Scoury  
(c) Rickets  
(d) Night-Blindness
- ④ - (a) Right to equality  
(b) Right to study  
(c) Right to Freedom of Religion  
(d) Right against Exploitation
- ⑤ - (a) Quran  
(b) Gita  
(c) Bible  
(d) Panchsheel

Answer:-

- ① c.  
② b.  
③ a.  
④ b.  
⑤ d.

⇒ Type 3 :- Number Based Classification:-

⇒ Pick the One which is different from other three alternation.

- (i) (a) 21, 42  
(b) 94, 48  
(c) 37, 74  
(d) 35, 28.

⇒ Except option 'd' Secured number is twice of the first number.

- (ii) - (a) 5720  
(b) 6710  
(c) 9640  
(d) 4270.

⇒ Except option 'd' all other numbers are completely divisible by 11.

- (iii) - (a) 8, 64, 512  
(b) 96, 6, 206  
(c) 48, 4, 202  
(d) 9, 27, 263

⇒ Except option 'a'  $(8)^1 = 8, (8)^2 = 64, (8)^3 = 512$ , other does not follow and sequence.

(iv) - 18, 34, 36, 48

- (a) 48  
(b) 36  
(c) 18  
(d) 34

⇒ 36 is a Perfect Square.

$$36 = 6 \times 6.$$

- (a) 729
- (b) 144
- (c) 343
- (d) 512

⇒ Except 'b' all the other numbers are perfect Cubes.

$$729 = (9)^3$$

$$343 = (7)^3$$

$$512 = (8)^3$$

(vi) → (a) 443

(b) 633

(c) 821

(d) 245.

⇒  $443 = 4+4+3 = 11$  So, option 'b' is our answer.

$$633 = 6+3+3 = 12$$

$$821 = 8+2+1 = 11$$

$$245 = 2+4+5 = 11$$

(vii) → (a)

(b)

(c)

(d)

⇒ Except option 'd' in all the other options, second no. is completely divided by first number.

$$, \frac{98}{4} = 14$$

$$, \frac{162}{9} = 18$$

$$, \frac{288}{12} = 24$$

$$\text{But, } \frac{572}{17} = 33.64.$$



- (vii) -
- (a) 13-21
  - (b) 19-27
  - (c) 15-29
  - (d) 16-24

⇒ Except option 'd' all the other no. are Odd Pairs (both no are odd)

- (ix) -
- (a) 8948
  - (b) 3463
  - (c) 3614
  - (d) 5725

⇒ 8948 ⇒  $(8+9) - (4+8) = 5$

3463 ⇒  $(3+4) - (6+3) = -2$

3614 ⇒  $(3+6) - (1+4) = 6$

5725 ⇒  $(9+7) - (2+5) = 5$

← This option (b) is Comes in negative so it is different So, it is our answer.

- (x) -
- (a) 28,62
  - (b) 24,44
  - (c) 99,99
  - (d) 56,63

⇒ Except option (b),

in the rest of the option Second nos. is obtained by just reversing the first no. in that option.

Test yourself :-

- (a) 20, 16, 18
- (b) 18, 14, 16
- (c) 16, 12, 14
- (d) 14, 11, 13

2- (a)  $\begin{bmatrix} a & b & c \\ b & c & a \\ c & a & b \end{bmatrix}$     (b)  $\begin{bmatrix} + & - & x \\ - & x & + \\ x & + & - \end{bmatrix}$     (c)  $\begin{bmatrix} \Delta & 0 & \square \\ 0 & \square & \Delta \\ \square & 0 & \Delta \end{bmatrix}$     (d)  $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \\ 3 & 1 & 2 \end{bmatrix}$

- 3- (a) 35  
 (b) 37  
 (c) 23  
 (d) 19

- 4- (a) 240  
 (b) 304  
 (c) 272  
 (d) 210

- 5- (a) 1625  
 (b) 3649  
 (c) 6481  
 (d) 5025

- 6- (a) 51530  
 (b) 41220  
 (c) 2610  
 (d) 3915

Answer:-

- ① d.
- ② c.
- ③ a.
- ④ d.
- ⑤ d.
- ⑥ d.