Reasoning

Coding Decoding

CODING-DECODING is an important part of the Logical reasoning section in all aptitude related examinations. Coding is a process used to encrypt a word, a number in a particular code or pattern based on some set of rules. Decoding is a process to decrypt the pattern into its original form from the given codes

Some of the major types of coding logics are →

- (a) Constant addition in the position of letters.
- (b) Constant subtraction in the position of letters.
- (c) Denoting the position of letters in the whole alphabetical order.
- (d) Addition of the positions of all the letters to make code for the word.
- (e) Constant addition and subtraction alternatively in the position of all the letters.
- (f) Square of the number of letters in the word.
- (g) Arranging the letters in alphabetical order.
- (h) Arrangement of letters in the word given in reverse order.
- (i) Interchanging each pair of the letters in the given word.
- (j) Constant addition and then reversal of the letters to form the final word.
- ⇒ In this chapter, mainly four types of questions are asked.
- 1. Letter coding
- 2. Number/Symbol coding
- 3. Words coding
- 4. Condition coding

TYPE-I

Letter coding - It consists of a set of letters, whose code is given as another set of characters. Based on this, the code of another letter group has to be found. Following are some examples of this -

1.Example - In a code language, QUESTION is written as OPJUTFVR. How will FACTOR be written in that language? **Solution:** QUESTION → (OPJUTFVR) There is a pattern :-

Q + 1 = R; U + 1 = V; E + 1 = F; S + 1 = T; T + 1 = U: I + 1 = J: 0 + 1 = P and N + 1 = 0.

Write it in reverse order. (OPJUTFVR) In the same way FACTOR is written as

F + 1 = G;A + 1 = B; C + 1 = D;T + 1 = U;0 + 1 = P; R + 1 = S.

Now, after reversing it (SPUDBG)

is the correct answer.

2. Example - If NBSJOF is coded as ENIRAM, then how will UFNQFS be written in that language?

Solution: NBSJOF → ENIRAM There is a pattern :-

S-1=R: N-1=M; B-1=A; J - 1 = I;0 - 1 = N; F - 1 = E;

Write it in reverse order. (ENIRAM) In the same way UFNQFS is written as U-1=T: F-1=E: N - 1 = M:

S - 1 = R;

Now, after reversing it (REPMET) is the correct answer.

Q-1=P; F-1=E;

TYPE - II

Number/symbol coding - In the letters of the English alphabet are coded with numbers or symbols which have to be understood and answered in the same code.

Following are some Example -

1.Example - In a code language, YOGHURT is written as 251578211820. How will DEVELOP be written as in that language?

Solution: YOGHURT \rightarrow 251578211820 Direct place values of the letters are written. So the code for DEVELOP will be 45225121516.

2. Example - In a code language, if 'BADGE' is written as '4281410', then how will 'NORMS' be written in that language?

Solution: BADGE → 4281410

Logic: Place value × 2

 $B \times 2 = 4$: $A \times 2 = 2$: $D \times 2 = 8$:

 $G \times 2 = 14$; $E \times 2 = 10$;

In the same way, NORMS \rightarrow

 $N \times 2 = 28$; $O \times 2 = 30$; $R \times 2 = 36$;

 $M \times 2 = 26$; $S \times 2 = 38$;

So, NORMS \rightarrow 2830362638

TYPE - III

Word coding - It contains a word or a set of words whose code is given another word or group of words.

Based on this, the code of a word has to be determined. Some examples of this

1.Example - If in a language, 'FOOT' is called 'ELBOW', 'ELBOW' is called 'ANKLE' , 'ANKLE' is called 'PALM' , 'PALM' is called 'FINGER' and 'FINGER' is called 'KNEE', then in that language, on what would one wear a ring?

Solution: We wear the ring in "FINGER". And the code for FINGER \rightarrow KNEE. So, KNEE is the right answer.

TYPE - IV

Condition coding - In this type of questions, some letters or numbers are given, and some signs or letters are marked in the form of signs and some special rules are given below. In the question, one has to find a group of signs from a group of numbers or letters or a group of letters from a group of signs.

1. Example - In a code language, GATE is written as 5*3\$ and TOUR is written as 32&% then How will URGE be written in that language?

Solution:



Then, the code for URGE \rightarrow &%5\$

Questions:-

Q.1. In a certain code language, 'BLUE' is coded as '1542' and 'ABLE' is coded as '1745'. What is the code for 'A' in the given code language?

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- (b) 1
- (c) 4
- Q.2. In a certain code language, 'ENVY' is coded as 'FMWX' and 'ALAS' is coded as 'BKBR'. What is the code for 'BODY' in the given code language?

SSC MTS 01/09/2023 (1st Shift)

- (a) DNEY (b) DNEX (c) CPEY (d) CNEX
- Q.3. In a certain code language, 'ESCORT' is coded as 'GRBNQV' and 'APRON' is coded as 'COQNP'. What is the code for 'CRANKY' in the given code language? SSC MTS 01/09/2023 (2nd Shift)
- (a) FPZNKC
- (b) DQYNKB
- (c) DPANJB
- (d) EQZMJA
- Q.4. In a certain code language, 'BATH' is coded as '1482' and 'HALT' is coded as '8126'. What is the code for 'L' in the given code language?

SSC MTS 01/09/2023 (2nd Shift)

- (b) 8
- (c) 2 (d) 6
- **0.5.** In a certain code language, 'LED' is coded as '15-22-23' and 'BMW' is coded as '25-14-4'. What is the code for 'QUF' in the given code language?

SSC MTS 01/09/2023 (3rd Shift)

- (a) 9 4 21 (b) 10 - 6 - 21
- (c) 11 5 20
- (d) 9 5 20
- Q.6. In a certain code language, 'DEAN' is coded as '2458' and 'LEND' is coded as '8352'. What is the code for 'L' in the given code language?

SSC MTS 01/09/2023 (3rd Shift)

- (b) 3
- (c) 8
- (d) 2
- Q.7. In a certain code language, 'COIN' is coded as '9735' and 'ONCE' is coded as

'3459'. What is the code for 'E' in the given code language?

SSC MTS 04/09/2023 (1st Shift)

- (a) 5
- (b) 3
- (c) 4
- (d)9

Q.8. In a certain code language, 'BLANCH' is coded as '36' and 'ARAB' is coded as '24". What is the code for 'CORRECT' in the given code language? SSC MTS 04/09/2023 (1st Shift)

- (b) 39 (c) 42 (d) 40
- Q.9. In a certain code language, 'YJM' is coded as '26-11-14' and 'SOP' is coded as '20-16-17'. What is the code for 'BTX' in the given code language?

SSC MTS 04/09/2023 (2nd Shift)

- (a) 3 21 25
- (b) 5 22 24
- (c) 5 23 25
- (d) 4 22 24

(d) 1

Q.10. In a certain code language, 'LIAR' is coded as '5148' and 'REAL' is coded as '1582'. What is the code for 'E' in the given code language?

SSC MTS 04/09/2023 (2nd Shift)

- (a) 5 (b) 8 (c) 2
- Q.11. In a certain code language. 'GLOAT' is coded as 'EJMYR' and 'INCUR' is coded as 'GLASP'. What is the code for 'PANDA' in the given code language? SSC MTS 04/09/2023 (3rd Shift)
- (a) MZMCZ
- (b) MYMCX
- (c) NXNBY
- (d) NYLBY
- Q.12. In a certain code language, 'MINT' is coded as '4735' and 'TIME' is coded as '5483' What is the code for 'E' in the given code language?

SSC MTS 04/09/2023 (3rd Shift)

- (a) 8
- (b) 5
- (c) 4
- (d) 3
- Q.13. In a certain code language. 'get more sleep' is coded as 'wo bt gk' and 'less is more' is coded as 'ap gk cm' How is 'more' coded in the given language" SSC MTS 05/09/2023 (1st Shift) (a) wo (b) cm (c) bt
- Q.14. In a certain code language, 'PING' is coded as '62' and 'HAZE' is coded as '68' What is the code for 'GOAT' in the given code language?

SSC MTS 05/09/2023 (1st Shift)

- (a) 67 (b) 65 (c) 66 (d) 69
- Q.15. In a certain code language, 'ETHOS' is coded as '15' and 'CHEERFUL' is coded as '24'. What is the code for 'CHIMNEY' in the given code language? SSC MTS 05/09/2023 (2nd Shift)
- (a) 18 (b) 21 (c) 19 (d) 23
- Q.16. In a certain code language, 'make your life' is coded as 'uk ox zt' and 'life is good' is coded as 'gr uk va'. How is 'life'

coded in the given language? SSC MTS 05/09/2023 (2nd Shift)

- (b) ox (c) uk (d) gr
- Q.17. In a certain code language, 'CHEW' is coded as '39' and 'FORE' is coded as '44' What is the code for 'GLIT' in the given code language?

SSC MTS 05/09/2023 (3rd Shift)

- (a) 48 (b) 51 (c) 50 (d) 52
- Q.18. In a certain code language, 'OPEN' is coded as'4582' and 'PORE' is coded as '2385'. What is the code for 'R' in the given code language?

SSC MTS 05/09/2023 (3rd Shift)

- (a) 8 (b) 2
- (c) 3
- (d) 5

(d) 2

Q.19. In a certain code language, 'NAME' is coded as '2473' and 'MEND' is coded as '7642'. What is the code for 'D' in the given code language?

SSC MTS 06/09/2023 (1st Shift)

- (a) 4
- (b) 6
- (c) 7
- Q.20. In a certain code language, 'CHORAL' is coded as 'OHCLAR' and 'FOREGO' is coded as 'ROFOGE'. What is the code for 'GALLEY' in the given code

SSC MTS 06/09/2023 (1st Shift)

(a) GYALLE

language?

- (b) ELLAGY
- (c) LAGYEL
- (d) YELLAG
- Q.21. In a certain code language, 'BLAME is coded as 'CMBNF' and 'CHANGE' is coded as 'DIBOHF'. What is the code for 'DESERT' in the given code language?

SSC MTS 06/09/2023 (2nd Shift)

- (a) EGTGSV
- (b) FHSGTV
- (c) EFTFSU
- (d) FGRFST
- Q.22. In a certain code language, 'WHAT' is coded as 5298 and 'THAN' is coded as 9826. What is the code for 'W' in the given code language?

SSC MTS 06/09/2023 (2nd Shift)

- (a) 8
 - (b) 5
- (c) 2
- Q.23. In a certain code language. 'MACABRE' is coded as '8' and 'HEDONISM' is coded as '9'. What is the code for 'ERUPT' in the given code language?

SSC MTS 06/09/2023 (3rd Shift)

- (a) 8
- (b) 6
- (c) 5
- (d) 7

(d) 6

Q.24. In a certain code language, 'never lose hope' is coded as 'tu fk mb' and 'winners never quit' is coded as 'dg vc fk. How is 'never' coded in the given language?

SSC MTS 06/09/2023 (3rd Shift)

- (a) vc (b) tu (c) fk

(d) dg

Q.25. In a certain code language, 'YOU' is coded as '20' and 'LIP' is coded as '44'. What is the code for 'ROB' in the given code language?

SSC MTS 08/09/2023 (1st Shift)

- (a) 44 (b) 46 (c) 41 (d) 42
- Q.26. In a certain code language, 'ATOM' is coded as '9613' and 'BOAT' is coded as '1938'. What is the code for 'B' in the given code language?

SSC MTS 08/09/2023 (1st Shift)

- (b) 8 (c) 3
- Q.27. In a certain code language, 'YOJ' is coded as 'BRM' and 'DSP' is coded as 'GVS'. What is the code for 'ZMC' in the given code language?

SSC MTS 08/09/2023 (2nd Shift)

- (a) DQE (b) CPF (c) CQF (d) DPG
- Q.28. In a certain code language, 'good vibes only' is coded as 'vn mj kl' and 'change is good' is coded as 'mj ro dh'. How is 'good' coded in the given language?

SSC MTS 08/09/2023 (2nd Shift)

- (a) ro (b) dh (c) vn (d) mj
- Q.29. In a certain code language, 'PORTAL' is coded as 'RQTVCN' and 'QUIET' is coded as 'SWKGV'. What is the code for 'SIMPLE' in the given code language?

SSC MTS 08/09/2023 (3rd Shift)

- (b) UKORNG (a) VKNRMJ
- (c) TJNSMH (d) TNOSMI
- Q.30. In a certain code language, 'do it now' is coded as 'qh tr ce' and 'now or never' is coded as 'Ix uk tr'. How is 'now' coded in the given language? SSC MTS 08/09/2023 (3rd Shift)
- (a) ce (b) qh (c) tr (d) Ix
- Q.31. In a certain code language, 'yes you can' is coded as 'an cf dt' and 'you are enough' is coded as 'sk dt hw'. How is "you" coded in the given language? SSC MTS 11/09/2023 (1st Shift)
- Q.32. In a certain code language 'BACK' is coded as '17' and 'DTDC' is coded as '31' What is the code for 'JAAM' in the given code language?

SSC MTS 11/09/2023 (1st Shift)

(a) cf (b) sk (c) dt (d) hw

- (a) 35 (b) 20 (c) 40 (d) 25
- Q.33. In a certain code language, 'ARC' is coded as '1-18-3' and 'BOY' is coded as '2-15-25'. What is the code for 'FAD' in the given code language?

SSC MTS 11/09/2023 (2nd Shift)

- (a) 7 2 5 (b) 6 - 1 - 4

2

- (c) 5 2 6 (d) 6 - 2 - 4
- Q.34. In a certain code language. 'NEAR' is coded as 4968 and 'REAP' is coded as 9865. What is the code for 'P' in the given code language?

SSC MTS 11/09/2023 (2nd Shift)

- (a) 9
- (b) 8
- (c) 5
- (d) 6

Q.35. In a certain code language. 'SCAR' is coded as '2386' and 'RACE' is coded as '8642'. What is the code for 'E' in the given code language?

SSC MTS 11/09/2023 (3rd Shift)

- (a) 8
- (b) 4
- (c) 2
- (d) 6

Q.36. In a certain code language, 'QUALIFY' is coded as 'PTZKHYF' and 'PANTHER' is coded as 'OZMSGRE'. What is the code for 'FORCEPS' in the given code language?

SSC MTS 11/09/2023 (3rd Shift)

- (a) EMOCDRQ
- (b) DMQCERP
- (c) DNPCDSQ
- (d) ENQBDSP

Q.37. In a certain code language, 'DOMINATE' is coded as 'TANIMODE' and 'FAITHFUL' is coded as 'UFHTIAFL'. What is the code for 'HIGHWAY' in the given code language?

SSC MTS 12/09/2023 (1st Shift)

- (a) AWHGIHY
- (b) IGHWAYH
- (c) AYWHGIH
- (d) YAWHGIH

Q.38. In a certain code language, 'DRAW' is coded as '7932' and 'WEAR' is coded as '4729'. What is the code for 'E' in the given code language?

SSC MTS 12/09/2023 (1st Shift)

- (a) 9
- (b) 2
- (c) 7
- (d) 4

Q.39. In a certain code language. 'DROP' is coded as '9375' and 'POND' is coded as '7839'. What is the code for 'N' in the given code language?

SSC MTS 12/09/2023 (2nd Shift)

- (a) 3
- (b) 7
- (c) 8
- (d) 9

Q.40. In a certain code language, CRAFT' is coded as 'DSBGU' and 'FRIDAY' is coded as 'GSJEBZ'. What is the code for 'MANGO' in the given code language? SSC MTS 12/09/2023 (2nd Shift)

- (a) NBOHP
- (b) MBPGQ
- (c) NCOGQ
- (d) MCOGP

Q.41. In a certain code language, 'just do it' is coded as 'ct ns kw' and 'do your best' is coded as 'mb kw du'. How is 'do' coded in the given language?

SSC MTS 12/09/2023 (3rd Shift)

- (a) ns (b) ct (c) kw (d) mb

- Q.42. In a certain code language, 'TOP' is coded as '22 - 17 - 18' and 'BIZ' is coded as '4 - 11 - 28'. What is the code for 'MAR'

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in the given code language?

- SSC MTS 12/09/2023 (3rd Shift)
- (a) 15 5 21
- (b) 16 5 20
- (c) 14 4 21 (d) 15 - 3 - 20

Q.43. In a certain code language. 'ENTRUST' is coded as 'FOURVTU' and 'CUSHION' is coded as 'DVTHJPO'. What is the code for 'CLEAVER' in the given code language?

SSC MTS 13/09/2023 (1st Shift)

- (a) DMFAWFS
- (b) DNGBWGT
- (c) ENGBWT
- (d) EMFBWGT

Q.44. In a certain code language, 'let it be' is coded as 'sd am ht' and 'be the change' is coded as 'vn sd ek'. How is 'be' coded in the given language?

- SSC MTS 13/09/2023 (1st Shift)
- (a) sd (b) ht (c) ek
- Q.45. In a certain code language, 'krishi might be coming' is written as 'gi ji hi fi' and 'prem will be going' is written as 'li mi ri hi'. How is 'be' written in the given language?

SSC MTS 13/09/2023 (2nd Shift)

- (a) li
- (b) ri
- (c) hi
- Q.46. In a certain code language. 'DEAF' is coded as '5718' and 'HEAD' is coded as '8137' What is the code for 'H' in the given code language?

SSC MTS 13/09/2023 (2nd Shift)

- (a) 1
- (b) 3
- (c) 8
- (d)7

(d) mi

0.47. In a certain code language. 'TUNE' is coded as '4368' and 'UNIT' is coded as '8423'. What is the code for 'I' in the given code language?

SSC MTS 13/09/2023 (3rd Shift)

- (a) 4
- (b) 3
- (c) 2
- (d) 8

Q.48. In a certain code language, 'people talk about' is written as 'ki li ni' and 'let them talk' is written as 'si ki hi'. How is 'talk' written in the given language? SSC MTS 13/09/2023 (3rd Shift)

- (a) li
- (b) ki
- (c) hi
- (d) ni

Q.49. In a certain code language, 'NAIL' is coded as '2637' and 'LANE' is coded as '3278'. What is the code for 'E' in the given code language?

SSC MTS 14/09/2023 (1st Shift)

- (a) 8 (b) 7
- (c) 2
- (d) 3

Q.50. In a certain code language, 'MENTOR' is coded as 'EMOUPS' and 'OCTAGON' is coded as 'COUBHPO'. What is the code for 'PENCIL' in the given code language?

SSC MTS 14/09/2023 (1st Shift)

- (a) EPLICN
- (b) LINCENP (d) EPODJM
- (c) PLICNE

Q.51. In a certain code language, 'DIAL' is coded as '1326' and 'IDLE' is coded as '6183'. What is the code for 'E' in the given code language?

SSC MTS 14/09/2023 (2nd Shift)

- (a) 1
- (b) 8
- (c)3
- (d) 6
- Q.52. In a certain code language, 'ENTER' is coded as 'FOTGT' and 'DICEY' is coded as 'EJCGA'. What is the code for 'CHILD' in the given code language?

SSC MTS 14/09/2023 (2nd Shift)

- (a) DIINF (b) DHIME (c) EJJNE (d) EHIMF
- Q.53. In a certain code language, 'how are you' is coded as 'aj ts el' and 'show them how' is coded as 'wn el pd'. How is 'how' coded in the given language" SSC MTS 14/09/2023 (3rd Shift)
- (a) pd (b) el
- - (c) aj (d) wn
- Q.54. In a certain code language. 'FLOWERY' is coded as 'FYREWOL' and 'LINGUIST' is coded as 'LTSIUGNI'.What is the code for 'MANIFEST in the given code language?

SSC MTS 14/09/2023 (3rd Shift)

- (a) MTSEFINA
- (b) TESFINAM
- (c) SEFINAMT
- (d) MSTEGJMA

Answer Key:-

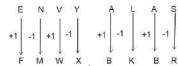
			-
1.(a)	2.(d)	3.(d)	4.(d)
5.(b)	6.(b)	7.(c)	8.(c)
9.(a)	10.(c)	11.(d)	12.(a)
13.(d)	14.(b)	15.(b)	16.(c)
17.(a)	18.(c)	19.(b)	20.(c)
21.(c)	22.(b)	23.(b)	24.(c)
25.(b)	26.(b)	27.(b)	28.(d)
29.(b)	30.(c)	31.(c)	32.(d)
33.(b)	34.(c)	35.(b)	36.(d)
37.(a)	38.(d)	39.(c)	40.(a)
41.(c)	42.(d)	43.(a)	44.(a)
45.(c)	46.(b)	47.(c)	48.(b)
49.(a)	50.(d)	51.(b)	52.(a)
53.(b)	54.(a)		

Solutions:-

Sol.1.(a) Given :- 'BLUE' → '1542'(I) 'ABLE' → '1745'(II)

From i and ii B, L, E(1, 4, 5) are common so the code for 'A' is '7'.

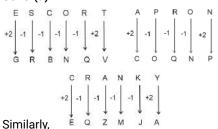
Sol.2.(d)





Similarly,

Sol.3.(d)

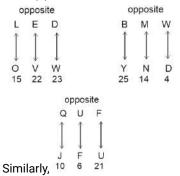


Oliffically,

Sol.4.(d) Given :- BATH \rightarrow 1482(I) HALT \rightarrow 8126(II)

From I and II H, A and T (8, 1 and 2) are common so the code for 'L' is '6'.

Sol.5.(b)



Sol.6.(b) Given :- DEAN \rightarrow 2458(I) LEND \rightarrow 8352(II)

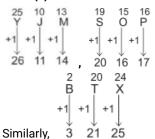
From I and II D, E and N (2, 5 and 8) are common so the code for 'L' is '3'.

Sol.7.(c) Given :- COIN \rightarrow 9735......(I) ONCE \rightarrow 3459......(II)

From I and II C, O and N (3, 5 and 9) are common so the code for 'E' is '4'

Sol.8.(c) Logic:- (Number of letters \times 6) BLANCH \rightarrow 6 \times 6 = 36 ARAB \rightarrow 4 \times 6 = 24 Similarly, CORRECT \rightarrow 7 \times 6 = 42

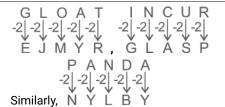
Sol.9.(a)



Sol.10.(c) Given :- LIAR \rightarrow 5148(I) REAL \rightarrow 1582.....(II)

From I and II L, A and R (1, 5 and 8) are common so the code for 'E' is '2'.

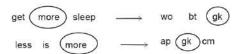
Sol.11.(d)



Sol.12.(a) Given :- MINT \rightarrow 4735.....(i) TIME \rightarrow 5483......(ii)

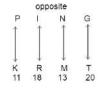
From I and II M, I and T (4, 5 and 3) are common so the code for 'E' is '8'.

Sol.13.(d)

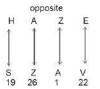


The code for 'more' is 'gk'.

Sol.14.(b) Logic: Sum of the place value of opposite letters.

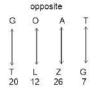


11 + 18 + 13 + 20 = 62



19 + 26 + 1 + 22 = 68

Similarly,

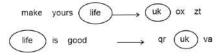


20 + 12 + 26 + 7 = 65

Sol.15.(b)

Logic :- Number of letters \times 3 = Number ETHOS \rightarrow 5 \times 3 = 15 CHEERFUL \rightarrow 8 \times 3 = 24 Similarly, CHIMNEY \rightarrow 7 \times 3 = 21

Sol.16.(c)



The code for 'life' is 'uk'.

Sol.17.(a)

Logic :- (Sum of the place value of letter) CHEW :- 3 + 8 + 5 + 23 = 39 FORE :- 6 + 15 + 18 + 5 = 44

Similarly,

GLIT: -7 + 12 + 9 + 20 = 48

Sol.18.(c) Given :- OPEN \rightarrow 4582......(i) PORE \rightarrow 2385......(ii)

From (i) and (ii)

POE and 285 are common.

The code of 'R' = 3.

Sol.19.(b) Given :- NAME → 2473.....(i)

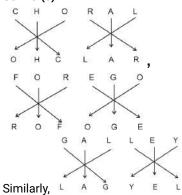
MEND → 7642.....(ii)

From (i) and (ii)

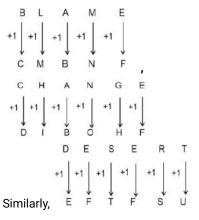
NEM and 247 are common.

The code of 'D' = 6.

Sol.20.(c)



Sol.21.(c)



Sol.22.(b) Given: WHAT \rightarrow 5298....... (i) THAN \rightarrow 9826...... (ii) From (i) and (ii) we get

THA and 982 are common.

The code of 'W' = 5

Sol.23.(b) Logic :- (Number of letters in the given word) + 1 = Number

MACABRE 7:1

 $MACABRE \rightarrow 7 + 1 = 8$

HEDONISM \rightarrow 8 + 1 = 9

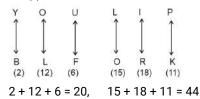
Similarly,

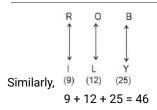
ERUPT \rightarrow 5 + 1 = 6

Sol.24.(c)

The code for 'never' is 'fk'.

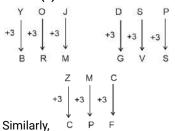
Sol.25.(b) Logic: Sum of the place value of opposite letters



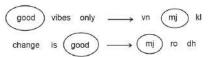


Sol.26.(b) Given :- ATOM \rightarrow 9613......(i) BOAT \rightarrow 1938.....(ii) From (i) and (ii) we get, OAT and 931 are common. The code of 'B' = 8

Sol.27.(b)



Sol.28.(d)



The code for 'good' is 'mj'.

Sol.29.(b)

Sol.30.(c)

do it
$$\widehat{now} \rightarrow qh(\widehat{tr}) ce$$

 \widehat{now} or never $\rightarrow lx$ $uk(\widehat{tr})$

The code for 'now' is 'tr'.

Sol.31.(c)

The code for 'you' is 'dt'.

Sol.32.(d) Logic :- Sum of the place value of the letters = Number BACK \rightarrow 2 + 1 + 3 + 11 = 17 DTDC \rightarrow 4 + 20 + 4 + 3 = 31 Similarly, JAAM \rightarrow 10 + 1 + 1 + 13 = 25

Sol.33.(b) Logic :- Letters are directly coded as their place value.

ARC: 1 - 18 - 3 BOY: 2 - 15 - 25 Similarly, FAD: 6 - 1 - 4

Sol.34.(c) Given :- NEAR \rightarrow 4968......(i) REAP \rightarrow 9865.......(ii) From (i) and (ii) REA and 986 are common. The code of 'P' = 5.

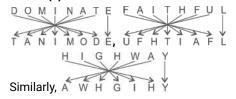
Sol.35.(b) Given :- SCAR \rightarrow 2386(I) RACE \rightarrow 8642.....(II)

From I and II C, A and R (8, 6 and 2) are common so the code for 'E' is '4'.

Sol.36.(d)



Sol.37.(a)



Sol.38.(d) Given :- DRAW \rightarrow 7932.....(i) WEAR \rightarrow 4729.....(ii) From (i) and (ii) WAR and 729 are common. The code of 'E' = 4.

Sol.39.(c) Given :- DROP \rightarrow 9375.....(I) POND \rightarrow 7839.....(II)

From I and II P, O and D (7, 9 and 3) are common so the code for 'N' is '8'.

Sol.40.(a)

Sol.41.(c)

The code of 'do' = 'kw'

Sol.42.(d)

Sol.43.(a)

ommany, Bill A

Sol.44.(a)

 $\begin{array}{c} \text{let it (be)} {\to} \text{sd) am ht} \\ \text{(be)} \text{the change} {\to} \text{vn (sd) ek} \end{array}$

The code for 'be' is 'sd'.

Sol.45.(c)

krishi might(be)coming→ gi ji(hi) fi prem will(be)going→ li mi ri(hi)

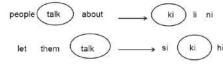
The code of 'be' = 'hi'

Sol.46.(b) Given :- DEAF \rightarrow 5718......(i) HEAD \rightarrow 8137......(ii) From (i) and (ii) EAD and 817 are common. The code of 'H' = 3

Sol.47.(c) TUNE \rightarrow 4368.....(I) UNIT \rightarrow 8423.....(II)

From I and II U, N and T (4, 8 and 3) are common so the code for 'I' is '2'.

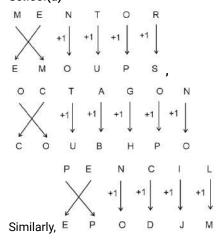
Sol.48.(b)



The code for 'talk' is 'ki'.

Sol.49.(a) Given : NAIL \rightarrow 2637.....(i) LANE \rightarrow 3278.....(ii) From (i) and (ii) NAL and 327 are common. The code of 'E' = 8

Sol.50.(d)

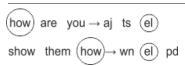


Sol.51.(b) Given :- DIAL \rightarrow 1326.....(I) IDLE \rightarrow 6183.....(II)

From I and II D, I and L (1, 6 and 3) are common so the code for 'E' is '8'.

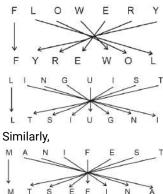
Sol.52.(a)

Sol.53.(b)



The code of 'how' = 'el'

Sol.54.(a)



Syllogism

BASICS RULES OF SYLLOGISM:-

It concludes on the basis of two or more statements. In this, reasoning has to be done on the basis of inference, whether the given statement is true or not, yet the statement is concluded as true.

Some important words related to Syllogism:

(i) Term - A word used as a subject and predicate in a sentence is called a Term. i.e - Ram is a good boy.

In this sentence, Ram, good and boy are three different terms.

(ii) Subject term - The term of a sentence about which it is said is called the subject term.

i.e - Ram is a good boy.

Here, Ram is a subject term.

(iii) Predicate term - A term of a sentence that describes someone's speciality is called a predicate term.

i.e - Ram is a good boy.

Here, 'good boy' is the predicate term.

- (iv) Contradictory terms Two terms when they oppose each other are called contradictory terms. Like - true-false, speaking-silent
- (v) Contrary term Two such terms which cannot be true together but they can be untrue simultaneously, such terms are called contrary terms.

i.e- day-night, thin - fat

There is a possibility of a third term like there can be a common boy between thin and thick.

(vi) Definite term - The term which gives the sense of certainty and truth is called definite post.

i.e - sky, star, moon

(vii) Indefinite post- The post which indicates uncertainty or untruth is called indefinite post.

i.e - a house, a child

(viii) Equivocal term - Such terms which have more than one meaning, are called Equivocal terms. Defects arise in the statements of such terms because such terms express different meanings in both the statements.

i.e - Rama replied, Ram has gone north.

(ix) Catergorematic posts - The term that can become the subject and predicate of a sentence independently are called Categorematic terms.

i.e - all human beings are mortal. Here, man and mortal are used as subjects and predicates without anyother word attached to them.

- (x) Proposition A term that shows the relationship between two terms of a statement. i.e - all cows are dogs.
- (xi) Copula A term that establishes a relationship between two terms of a sentence is called a Copula.

i.e- Ram is handsome.

- (xii) Minor term The subjective or doer of the conclusion is called the short term.
- (xiii) Major term The conclusion or predicate of incorporation is called a major term.
- (xiv) Middle term The term which establishes a relationship between the two statements and in its absence no valid conclusion can be drawn, such terms are called middle terms.
- *Logical sentences have heen classified in two ways on the basis of quality and quantity.
- 1. universal
- 2. Particular

Sr.	Туре	Example
1	Universal +ve	All cow are cattle
2	Universal -ve	No cow are cattle
3	Particular +ve	Some cow are cattle
4	Particular -ve	Some cow are not
		cattle

*Distribution of terms:

(i) Distributed and undistributed- When such words are present in a statement from which there is a sense of completeness, it is called Distributed and from which there is a sense of partiality, it is called undistributed.

- *Kinds of immediate inference -
- (i) Conversion (ii) Obversion (iii) Contraposition

1. Conversion - A change in which the subjective present in the sentence

becomes predicate in the conclusion and the predicate becomes the subjective. And the quality of the base sentence is the same quality as the conclusion sentence. That conclusion will be positive if sentence is positive and conclusion will be negative if sentence is negative.

(i) Conversion of Universal Affirmative = **Statement** (All) → **Conclusion** (Some) Statement - All cows are cattle Conclusion - Some cows are cattle

(ii) Conversion of Universal Negative = Statement (No) -> Conclusion (Some +

Statement - No cow is cattle Conclusion- Some cow is not cattle

Conversion of **Particular** Affirmative =

Statement(Some) → **Conclusion**(Some) Statement - Some cows are cattle Conclusion- Some cattle are cows.

(iv) Conversion of Particular Negative = Statement (Some + not) \rightarrow Conclusion \times Statement - Some cows are not cattle Conclusion- $\times \times \times \times \times$ Nothing (Here, will come to conclusion)

- 2. Obversion Assumptions whose statement of predicate is predicate of predicate sentence and both base sentence and conclusion sentence are equal in meaning.
- (i) Obversion of universal affirmative = Statement (All) → Conclusion (No) Statement- All boys are tall. Conclusion - No boy is a dwarf.
- (ii) Obversion of universal negative = Statement (No) → Conclusion (All) Statement- No boys are tall. Conclusion - All boy is a dwarf
- (iii) Obversion of particular affirmative = Statement (Some) → Conclusion (Some+not)

Statement - Some boys are tall. Conclusion - Some boys are not dwarf.

(iv) Obversion of particular negative = Statement (Some+not) → Conclusion

Statement - Some boys are not skilled. Conclusion - Some boys are inefficient.

3. Contraposition - The inference in which the predicate of the predicate sentence of the base sentence is derived from the place of subjective in the conclusion and the subjective term of the base sentence in place of the

predicate sentence in the conclusion.

Contraposition of Universal (i) Affirmative →

Statement - All animals that can fly are animals with wings.

conclusion - All animals without wings are animals that cannot fly.

Contraposition Universal (ii) of negative \rightarrow

Statement - No dead organisms are immortal beings. ≠

Conclusion - No mortal beings are living organisms

Contraposition particular of **Affirmative** →

Statement Some persuasive arguments are illogical. ≠

Conclusion- Some logical arguments are unpersuasive.

(iv) contraposition of particular negative →

Statement - Some employed workers are not people with health insurance.

Conclusion- Some people without health insurance are not unemployed workers.

How to solve SYLLOGISM-

- 1. Analytical method
- 2. Venn-diagram
- (1). Analytical method In this method, we will first arrange in a queue. You will see that in two reasoning sentences there is always a common term which is called the middle term and with the help of that conclusion is found.

Statement -

All dogs are cats.

Some cats are goats.

Conclusion -

All dogs are goats.

Some goats are dogs.

Solution: Since both the conclusions 1 and 2 contain the middle term 'goats', so neither of them can follow.

Statement -

All mangoes are mobile.

No mobile is lychee.

Conclusion -

All mobile are mangoes.

No mangoes are lychees.

Solution: Here, positive conclusions should not be drawn as per rules. Hence conclusion (i) is an invalid conclusion while conclusion (ii) No mangoes are lychees' is a valid conclusion.

Analytical Table

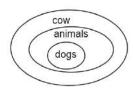
Statement	Definite	Possible
	Conclusion	Conclusion
All A are B	•All A are B	•All B are A
	•Some A are B	•Some B are not A
	•Some B are A	
ome A are B	•Some A are B	•All A are B
	•Some B are A	•All B are A
		•Some A are not B
		•Some B are not A
Some A are	Some A are	•Some A are B
not B	not B	∙No A is B
		•NO B is A
		•Some B are not A
		•All B are A
No A is B	•No A is B	•No Possibility
	•No B is A	

- (2). Venn diagram :- With this method, it is very important to keep the following three points in mind for the precise solution of the questions:-
- (i) Draw different diagrams of all the given statements.
- (ii) join the picture together as much as possible.
- (iii) Draw conclusions based on the added image. Any conclusion will be true only if it conforms to the combined picture and no picture is contradictory to the other.

TYPE-I

Statement -

All dogs are animals. All animals are cows.



Conclusion:-

Some cows are dogs. (\checkmark)

Some cows are animals. (\checkmark)

All dogs are cows. (✓)

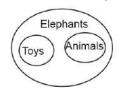
Some animals are dogs. (\checkmark)

All animals are cows. (✓)

TYPE-II

Statement -

All toys are elephants. All animals are elephants.



Conclusion :-

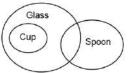
Some elephants are toys (✓) Some elephants are animals (\checkmark) Some toys are animals (Can't say)

TYPE-III

Statement:-

All cups are glasses

Some glasses are spoons.



Conclusion:-

Some glasses are cups. (\checkmark)

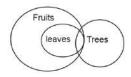
Some spoons are glass. (\checkmark)

Some cups are spoon (Can't say)

TYPE-IV

Statement: -

Some trees are leaves. All leaves are fruits.



Conclusion:-

Some leaves are trees. (✓)

Some fruits are leaves. (\checkmark)

Some trees are fruits. (\checkmark)

Some fruits are trees. (\checkmark)

TYPE-V

Statement:-

All copies are books. Some pens are books



Conclusion:-

Some books are copies. (\checkmark)

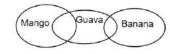
Some books are pens. (\checkmark)

Some copies are pens . (Can't say)

TYPE-VI

Statement -

Some mangoes are guava Some guava is banana.



Conclusion:-

Some guava are mangoes. (✓) Some bananas are guava. (✓)

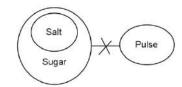
Some mangoes are bananas.(Can't say)

TYPE-VII

Statement:-

All salt is sugar.

No sugar is pulse.



Conclusion:-

Some sugar is salt. (✓)

There is no Pulse , Sugar. (✓)

There is no Salt, Pulse. (✓)

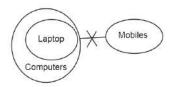
There is no Pulse, salt. (\checkmark)

TYPE-VIII

Statement:-

No mobiles are laptops.

All laptops are computers.



Conclusion:-

No laptop is mobile.(✓)

Some computers are laptops. (\checkmark)

Some computers are not mobile. (\checkmark)

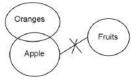
Some mobiles are computers. (Can't say)

TYPE-IX

Statement:-

Some oranges are Apple.

No apple is fruit.



Conclusion:

Some apples are oranges. (\checkmark)

No fruit is an apple. (\checkmark)

Some oranges are not fruits. (\checkmark)

Some oranges are fruit . (Can't say)

DIRECTION:- [Q .1. - Q .54.] Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

Questions:-

Q.1. Statements:

All rags are carpets.

Some carpets are steel.

Some steel are bottles.

Conclusion:

- (I) All carpets are rags.
- (II) Some carpets are bottles.

SSC MTS 01/09/2023 (1st Shift)

- (a) Only conclusion (I) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (II) is follow.
- (d) Neither conclusion (I) nor (II) is follow.

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Q.2. Statements:

All chocolates are sweets.

Some sweets are harmful.

Conclusions:

- (I) All Chocolates are harmful.
- (II) Some harmful are chocolates.

SSC MTS 01/09/2023 (1st Shift)

- (a) Neither conclusion (I) nor (II) is follows.
- (b) Both conclusions (I) and (II) are follows.
- (c) Only conclusion (II) is follows.
- (d) Only conclusion (I) is follows.

Q.3. Statements:

All TVs are radios.

Some radios are dryers.

All dryers are hot.

Conclusion:

- (I) Some TVs are radios.
- (II) Some dryers are TVs.

SSC MTS 01/09/2023 (2nd Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (I) is follow.
- (d) Only conclusion (II) is follow.

O.4. Statements:

Some cows are animals.

All animals are big.

No big is a mobile.

Conclusion:

- (I) All cows are animals.
- (II) No big is an animal.

SSC MTS 01/09/2023 (2nd Shift)

- (a) Only conclusion (I) is follow.
- (b) Neither conclusion (I) nor (II) is follow.
- (c) Both conclusions (I) and (II) are follow.
- (d) Only conclusion (II) is follow.

Q.5. Statements:

Some photos are vases.

All vases are tall.

Some tall are buildings.

Conclusion:

- (I) Some photos are buildings.
- (II) All tall are vases.

SSC MTS 01/09/2023 (3rd Shift)

- (a) Both conclusions (I) and (II) are follow.
- (b) Only conclusion (I) is follow.
- (c) Only conclusion (II) is follow.
- (d) Neither conclusion (I) nor (II) is follow.

Q.6. Statements:

All bed are covers.

Some covers are thick.

Some thick is juice.

Conclusion:

- (I) All covers are beds.
- (II) Some thick are covers.

SSC MTS 01/09/2023 (3rd Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Only conclusion (II) is follow.
- (c) Both conclusions (I) and (II) are follow.
- (d) Only conclusion (I) is follow.

Q.7. Statements:

All ropes are forks.

Some forks are spoons.

Some spoons are chopsticks.

Conclusion:

- (I) Some ropes are spoons.
- (II) All forks are chopsticks.

SSC MTS 04/09/2023 (1st Shift)

- (a) Only conclusion (II) is follow.
- (b) Only conclusion (I) is follow.
- (c) Both conclusions (I) and (II) are follow.
- (d) Neither conclusion (I) nor (II) is follow.

0.8. Statements:

All computers are laptops.

Some laptops are heavy.

All heavy is wood.

Conclusion:

- (I) All laptops are computers.
- (II) Some heavy are laptops.

SSC MTS 04/09/2023 (1st Shift)

- (a) Neither conclusion (I) nor (II) is follow
- (b) Only conclusion (I) is follow
- (c) Both conclusions (I) and (II) are follow
- (d) Only conclusion (II) is follow

Q.9. Statements:

All crows are sparrows.

Some sparrows are parrots.

All parrots are yellow.

Conclusion:

- (I) Some crows are parrots.
- (II) Some yellow are parrots.

SSC MTS 04/09/2023 (2nd Shift)

- (a) Only conclusion (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (I) is follow.
- (d) Neither conclusion (I) nor (II) is follow.

Q.10. Statements:

All the actors are girls.

All the girls are beautiful.

Conclusions:

- (I) All the actors are beautiful.
- (II) Some girls are actors.

SSC MTS 04/09/2023 (2nd Shift)

- (a) Both conclusions (I) and (II) are follows.
- (b) Only conclusion (II) is follows.
- (c) Only conclusion (I) is follows.
- (d) Neither conclusion (I) nor (II) is follows.

Q.11. Statements:

Some doughnuts are rocks.

All rocks are papers.

Some papers are oil.

Conclusion:

- (I) Some doughnuts are papers.
- (II) Some rocks are oil.

SSC MTS 04/09/2023 (3rd Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Both conclusions (I) and (II) are follow (c) Only conclusion (II) is follow
- (d) Only conclusion (I) is follow.

Q.12. Statements:

Some glass are pink.

All pink are bags.

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Some bags are flowers.

- **Conclusion:**
- (I) Some pink are glass.
- (II) Some flowers are bags.

SSC MTS 04/09/2023 (3rd Shift)

- (a) Only conclusion (II) is follow.
- (b) Neither conclusion (I) nor (II) is follow.
- (c) Only conclusion (I) is follow.
- (d) Both conclusions (I) and (II) are follow.

Q.13. Statements:

All needles are pins.

Some pins are wood.

All wood are cups.

Conclusion:

- (I) Some needles are wood.
- (II) All cups are pins.

SSC MTS 05/09/2023 (1st Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Only conclusion (II) is follow.
- (c) Both conclusions (I) and (II) are follow.
- (d) Only conclusion (I) is follow.

Q.14. Statements:

All jars are plastic.

Some plastic are spoons.

No spoon is a fork.

Conclusion:

- (I) Some plastic are jars.
- (II) Some forks are spoons.

SSC MTS 05/09/2023 (1st Shift)

- (a) Only conclusion (II) is follow.
- (b) Neither conclusion (I) nor (II) is follow.
- (c) Only conclusion (I) is follow.
- (d) Both conclusions (I) and (II) are follow.

Q.15. Statements:

Some walls are stone.

All stones are diamonds.

All diamonds are bricks.

Conclusion:

- (I) Some stones are walls.
- (II) Some stones are bricks.

SSC MTS 05/09/2023 (2nd Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (II) is follow.
- (d) Only conclusion (I) is follow.

Q.16. Statements:

All orchids are flowers.

Some orchids are beautiful.

Conclusions:

- (I) Some flowers are beautiful.
- (II) All beautiful are flowers.

SSC MTS 05/09/2023 (2nd Shift)

- (a) Only conclusion (II) is follows.
- (b) Both conclusions (I) and (II) are follows.
- (c) Neither conclusion (I) nor (II) is follows.
- (d) Only conclusion (I) is follows.

0.17. Statement:

Some sofas are teapots.

All teapots are printers.

Some printers are vases.

Conclusion:

- (I) Some teapots are sofas.
- (II) Some vases are printers.

SSC MTS 05/09/2023 (3rd Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Only conclusion (II) is follow.
- (c) Both conclusions (I) and (II) are follow.
- (d) Only conclusion (I) is follow.

0.18. Statements:

All blenders are microwaves.

Some microwaves are toasters.

All toasters are lamps.

Conclusion:

- (I) Some blenders are microwaves.
- (II) All toasters are blenders.

SSC MTS 05/09/2023 (3rd Shift)

- (a) Only conclusion (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Neither conclusion (I) nor (II) is follow.
- (d) Only conclusion (I) is follow.

Q.19. Statements:

All buildings are chalks.

No chalk is a toffee.

Conclusions:

- (I) No building is a toffee.
- (II) All chalks are buildings.

SSC MTS 06/09/2023 (1st Shift)

- (a) Both conclusions (I) and (II) are follows.
- (b) Only conclusion (I) is follows.
- (c) Neither conclusion (I) nor (II) is follows.
- (d) Only conclusion (II) is follows.

Q.20. Statements:

All cakes are biscuits.

Some biscuits are tarts.

All tarts are puddings.

Conclusion:

- (I) Some biscuits are cakes.
- (II) Some puddings are biscuits.

SSC MTS 06/09/2023 (1st Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (I) is follow.
- (d) Only conclusion (II) is follow.

Q.21. Statements:

Some dogs are bats.

Some bats are cats

Conclusions:

- (I) Some dogs are cats.
- (II) Some cats are dogs.

SSC MTS 06/09/2023 (2nd Shift)

- (a) Both conclusions (I) and (II) are follows.
- (b) Only conclusion (II) is follows.
- (c) Neither conclusion (I) nor (II) is follows.
- (d) Only conclusion (I) is follows.

0.22. Statements:

Some paints are cats.

All cats are dogs.

Some dogs are bananas.

Conclusion:

- (I) Some paints are dogs.
- (II) Some cats are bananas.

SSC MTS 06/09/2023 (2nd Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (I) is follow.
- (d) Only conclusion (II) is follow.

Q.23. Statements:

Some bats are curtains.

All curtains are yellow.

All yellow are pens.

Conclusion:

- (I) All yellow are curtains.
- (II) Some pens are curtains.

SSC MTS 06/09/2023 (3rd Shift)

- (a) Only conclusion (I) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Neither conclusion (I) nor (II) is follow.
- (d) Only conclusion (II) is follow.

0.24. Statements:

All flowers are orange.

Some orange is colour.

All colours are bright.

Conclusion:

- (I) Some orange are flowers.
- (II) All colour is orange.

SSC MTS 06/09/2023 (3rd Shift)

- (a) Only conclusion (I) is follow. (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (II) is follow. (d) Neither conclusion (I) nor (II) is follow.

Q.25. Statements:

All people are tall.

Some tall are buildings.

No buildings are clocks.

- **Conclusion:** (I) Some people are buildings.
- (II) No clocks are buildings.

- SSC MTS 08/09/2023 (1st Shift) (a) Only conclusion (II) is follow.
- (b) Neither conclusion (I) nor (II) is follow.
- (c) Both conclusions (I) and (II) are follow. (d) Only conclusion (I) is follow.

Q.26. Statements:

Some combs are wood.

Some wood are tables. Some tables are plastic.

Conclusion:

- (I) Some wood are combs.
- (II) All plastic are tables.

SSC MTS 08/09/2023 (1st Shift)

(a) Only conclusion (II) is follow.

(c) Only conclusion (I) is follow.

(b) Both conclusions (I) and (II) are follow.

(d) Neither conclusion (I) nor (II) is follow.

Q.27. Statements:

All the pencils are pens.

All the pens are inks.

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Conclusions:

- (I) All the pencils are inks.
- (II) Some inks are pencils.

SSC MTS 08/09/2023 (2nd Shift)

- (a) Neither conclusion (I) nor (II) is follows.
- (b) Both conclusions (I) and (II) are follows.
- (c) Only conclusion (II) is follows.
- (d) Only conclusion (I) is follows.

Q.28. Statements:

Some beds are telephones.

All telephones are pillows.

Some pillows are cupboards.

Conclusion:

- (I) Some pillows are telephones.
- (II) Some beds are pillows.

SSC MTS 08/09/2023 (2nd Shift)

- (a) Both conclusions (I) and (II) are follow.
- (b) Only conclusion (I) is follow.
- (c) Neither conclusion (I) nor (II) is follow.
- (d) Only conclusion (II) is follow.

0.29. Statements:

All stamps are keys.

All keys are black.

All black are grey.

Conclusion:

- (I) All keys are stamps.
- (II) Some keys are black.

SSC MTS 08/09/2023 (3rd Shift)

- (a) Both conclusions (I) and (II) are follow.
- (b) Only conclusion (II) is follow.
- (c) Only conclusion (I) is follow.
- (d) Neither conclusion (I) nor (II) is follow.

Q.30. Statements:

All threads are soft.

Some soft are fruit.

All fruit is yellow.

Conclusion:

- (I) Some thread is fruit.
- (II) Some fruit is yellow.

SSC MTS 08/09/2023 (3rd Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (II) is follow.
- (d) Only conclusion (I) is follow.

Q.31. Statements:

All phones are flowers.

Some flowers are bags.

All bags are heavy

Conclusion:

- (I) Some phones are flowers.
- (II) All flowers are bags.

SSC MTS 11/09/2023 (1st Shift)

- (a) Neither conclusion (I) nor (II) is follow
- (b) Both conclusions (I) and (II) are follow
- (c) Only conclusion (II) is follow
- (d) Only conclusion (I) is follow.

Q.32. Statements:

All torches are guitars.

Some guitars are bulbs.

No bulb is a stove.

Conclusion I: All bulbs are guitars

Conclusion II: No guitar is a torch

SSC MTS 11/09/2023 (1st Shift)

- (a) Neither conclusion (I) nor (II) is follow
- (b) Only conclusion (I) is follow
- (c) Both conclusions (I) and (II) are follow
- (d) Only conclusion (II) is follow

Q.33. Statements:

All dogs are cats.

Some cats are hens.

All hens are pink.

Conclusion:

- (I) Some dogs are cats.
- (II) Some cats are pink.

SSC MTS 11/09/2023 (2nd Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (II) is follow.
- (d) Only conclusion (I) is follow.

0.34. Statements:

All clowns are bottles.

Some bottles are steel.

All steel are keys.

Conclusion:

- (I) Some clowns are bottles.
- (II) All steel are bottles.

SSC MTS 11/09/2023 (2nd Shift)

- (a) Both conclusions (I) and (II) are follow.
- (b) Only conclusion (I) is follow.
- (c) Only conclusion (II) is follow.
- (d) Neither conclusion (I) nor (II) is follow

Q.35. Statements:

All trees are mobiles.

Some mobiles are small.

All small are ants.

Conclusion:

- (I) Some trees are mobiles.
- (II) Some ants are small.

SSC MTS 11/09/2023 (3rd Shift)

- (a) Only conclusion (II) is follow
- (b) Neither conclusion (I) nor (II) is follow.
- (c) Only conclusion (I) is follow.
- (d) Both conclusions (I) and (II) are follow

Q.36. Statements:

All apples are fire.

All fire is hot.

Some hot are crabs.

Conclusion:

- (I) No apples are hot
- (II) Some crabs are fire.

SSC MTS 11/09/2023 (3rd Shift)

- (a) Only conclusion (II) is follow
- (b) Neither conclusion (I) nor (II) is follow. (c) Only conclusion (I) is follow.
- (d) Both conclusions (I) and (II) are follow

Q.37. Statements:

All cups are books.

All books are shirts.

Conclusions:

- (I) Some cups are not shirts.
- (II) Some shirts are cups.

SSC MTS 12/09/2023 (1st Shift)

- (a) Neither conclusion (I) nor (II) is follows.
- (b) Both conclusions (I) and (II) are follows.
- (c) Only conclusion (II) is follows.
- (d) Only conclusion (I) is follows.

Q.38. Statements:

Some lipsticks are foundation.

All foundation is brown.

Some brown are highlighters.

Conclusion:

- (I) Some lipsticks are brown.
- (II) All foundation are highlighters.

SSC MTS 12/09/2023 (1st Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (II) is follow.
- (d) Only conclusion (I) is follow.

0.39. Statements:

Some cows are crows.

Some crows are elephants.

Conclusions:

- (I) Some cows are elephants.
- (II) All crows are elephants.

SSC MTS 12/09/2023 (2nd Shift)

- (a) Only conclusion (I) is follows.
- (b) Neither conclusion (I) nor (II) is follows.
- (c) Only conclusion (II) is follows.
- (d) Both conclusions (I) and (II) are follows.

0.40. Statements:

Some alphabets are chairs.

Some chairs are high.

All high are buildings.

- **Conclusion:**
- (I) Some alphabets are buildings.

(II) Some high are buildings. SSC MTS 12/09/2023 (2nd Shift)

- (a) Only conclusion (II) is follow.
- (b) Only conclusion (I) is follow
- (c) Both conclusions (I) and (II) are follow. (d) Neither conclusion (I) nor (II) is follow.

Q.41. Statements:

All clay is metal.

Some metal are bricks.

All bricks are tablets. Conclusion:

- (I) Some clay are bricks.

(II) All metal are tablets.

- SSC MTS 12/09/2023 (3rd Shift) (a) Both conclusions (I) and (II) are follow.
- (b) Only conclusion (II) is follow.
- (c) Neither conclusion (I) nor (II) is follow. (d) Only conclusion (I) is follow.

0.42. Statements:

All cars are cats.

All fans are cats.

Conclusions:

- (I) All cars are fans.
- (II) Some fans are cars.

SSC MTS 12/09/2023 (3rd Shift)

- (a) Only conclusion (I) is follows.
- (b) Only conclusion (II) is follows.
- (c) Neither conclusion (I) nor (II) is follows.
- (d) Both conclusions (I) and (II) are follows.

Q.43. Statements:

All shoes are leather.

Some leather are belts.

Some belts are gold.

Conclusion:

- (I) Some shoes are belts.
- (II) All belts are gold.

SSC MTS 13/09/2023 (1st Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Only conclusion (I) is follow.
- (c) Only conclusion (II) is follow.
- (d) Both conclusions (I) and (II) are follow.

Q.44. Statements:

Some leaves are old.

All old are clothes.

Some clothes are papers.

Conclusion:

- (I) All leaves are old.
- (II) Some old are clothes.

SSC MTS 13/09/2023 (1st Shift)

- (a) Only conclusion (I) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (II) is follow.
- (d) Neither conclusion (I) nor (II) is follow

Q.45. Statements:

All wool is crochet.

Some crochet are skirts.

All skirts are bread.

Conclusion:

- (I) Some crochet is wool.
- (II) Some bread is crochet.

SSC MTS 13/09/2023 (2nd Shift)

- (a) Neither conclusion (I) nor (II) is follow.
- (b) Only conclusion (I) is follow.
- (c) Both conclusions (I) and (II) are follow.
- (d) Only conclusion (II) is follow.

Q.46. Statements:

Some chairs are fans.

All fans are pots.

Some pots are hot.

Conclusion:

- (I) Some fans are chairs.
- (II) Some hot are pots.

SSC MTS 13/09/2023 (2nd Shift)

- (a) Only conclusion (I) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (II) is follow.
- (d) Neither conclusion (I) nor (II) is follow.

Q.47. Statements:

Some laptops are pencils.

Some pencils are rulers.

All rulers are white.

Conclusion:

- (I) Some pencils are laptops.
- (II) All rulers are pencils.

SSC MTS 13/09/2023 (3rd Shift)

- (a) Both conclusions (I) and (II) are follow.
- (b) Only conclusion (I) is follow.
- (c) Neither conclusion (I) nor (II) is follow.
- (d) Only conclusion (II) is follow.

Q.48. Statements:

All crows are bananas.

Some bananas are pink.

All pink are white.

Conclusion:

- (I) Some crows are bananas.
- (II) All bananas are pink.

SSC MTS 13/09/2023 (3rd Shift)

- (a) Only conclusion (II) is follow.
- (b) Neither conclusion (I) nor (II) is follow.
- (c) Only conclusion (I) is follow.
- (d) Both conclusions (I) and (II) are follow.

Q.49. Statements:

All trucks are bikes.

All bikes are carts.

Some carts are pens.

Conclusion:

- (I) Some trucks are carts.
- (II) No bikes are pens.

SSC MTS 14/09/2023 (1st Shift)

- (a) Only conclusion (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Neither conclusion (I) nor (II) is follow
- (d) Only conclusion (I) is follow

Q.50. Statements:

Some chargers are metal.

All metal are hard.

Some hard are stools.

Conclusion:

- (I) All chargers are metal
- (II) Some stools are hard

SSC MTS 14/09/2023 (1st Shift)

- (a) Both conclusions (I) and (II) are follow.
- (b) Neither conclusion (I) nor (II) is follow.
- (c) Only conclusion (I) is follow.
- (d) Only conclusion (II) is follow.

Q.51. Statements:

Some schools are big.

All big are malls.

No mall is cheap

Conclusion:

- (I) All big are schools.
- (II) Some malls are big.

SSC MTS 14/09/2023 (2nd Shift)

- (a) Both conclusions (I) and (II) are follow.
- (b) Only conclusion (II) is follow.
- (c) Only conclusion (I) is follow.
- (d) Neither conclusion (I) nor (II) is follow.

Q.52. Statements:

All trash are rags.

Some rags are big. All big are crabs.

Conclusion:

- (I) All big are rags.
- (II) Some crabs are rags.

SSC MTS 14/09/2023 (2nd Shift)

- (a) Both conclusions (I) and (II) are follow.
- (b) Only conclusion (I) is follow.
- (c) Neither conclusion (I) nor (II) is follow.
- (d) Only conclusion (II) is follow.

Q.53. Statements:

All buckets are plastic.

Some plastic are spoons.

All spoons are forks.

Conclusion:

- (I) Some plastic are buckets
- (II) Some plastics are forks.

SSC MTS 14/09/2023 (3rd Shift)

- (a) Only conclusion (II) is follow.
- (b) Both conclusions (I) and (II) are follow.
- (c) Only conclusion (I) is follow.
- (d) Neither conclusion (I) nor (II) is follow.

Q.54. Statements:

All the trucks are flies.

Some scooters are flies.

Conclusions:

- (I) All trucks are scooters:
- (II) Some scooters are trucks.

SSC MTS 14/09/2023 (3rd Shift)

- (a) Neither conclusion (I) nor (II) is follows.
- (b) Only conclusion (I) is follows...
- (c) Both conclusions (I) and (II) are follows.
- (d) Only conclusion (II) is follows.

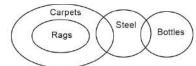
Answer Key :-

1.(d)	2.(a)	3.(c)	4.(b)
5.(d)	6.(b)	7.(d)	8.(d)
9.(a)	10.(a)	11.(d)	12.(d)
13.(a)	14.(c)	15.(b)	16.(d)
17.(c)	18.(d)	19.(b)	20.(b)
21.(c)	22.(c)	23.(d)	24.(a)
25.(a)	26.(c)	27.(b)	28.(a)
29.(b)	30.(c)	31.(d)	32.(a)
33.(b)	34.(b)	35.(d)	36.(b)
37.(c)	38.(d)	39.(b)	40.(a)
41.(c)	42.(c)	43.(a)	44.(c)
45.(c)	46.(b)	47.(b)	48.(c)
49.(d)	50.(d)	51.(b)	52.(d)
53.(b)	54.(a)		

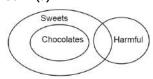
Solutions:-

Sol.1.(d)

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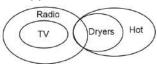


Sol.2.(a)



Neither conclusion (I) nor (II) follow.

Sol.3.(c)



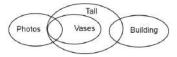
Only conclusion (I) follow.

Sol.4.(b)



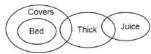
Neither conclusion (I) nor (II) follow.

Sol.5.(d)



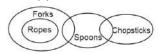
Neither conclusion (I) nor (II) follow.

Sol.6.(b)



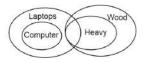
Only conclusion (II) follows.

Sol.7.(d)



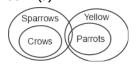
Neither conclusion (I) nor (II) follow.

Sol.8.(d)



Only conclusion (II) follows.

Sol.9.(a)



Only conclusion (II) follows.

Sol.10.(a)



Both conclusions (I) and (II) follow.

Sol.11.(d)



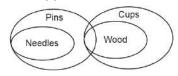
Only conclusion (I) follows.

Sol.12.(d)



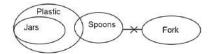
Both conclusions (I) and (II) follow.

Sol.13.(a)



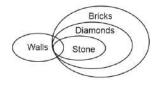
Neither conclusion (I) nor (II) follow.

Sol.14.(c)



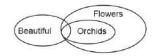
Only conclusion (I) follows.

Sol.15.(b)



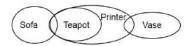
Both conclusions (I) and (II) follow.

Sol.16.(d)



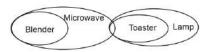
Only conclusion (I) follows.

Sol.17.(c)



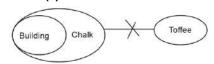
Both conclusions I and II follow.

Sol.18.(d)



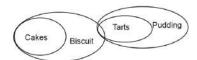
Only conclusion I follow.

Sol.19.(b)



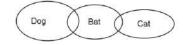
Only conclusion I follows.

Sol.20.(b)



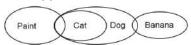
Both conclusions I and II follow.

Sol.21.(c)



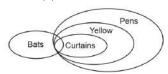
Neither conclusion I nor II follows.

Sol.22.(c)



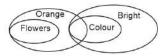
Only conclusion I follows.

Sol.23.(d)



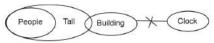
Only conclusion (II) follows.

Sol.24.(a)



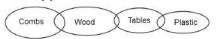
Only conclusion (I) follow.

Sol.25.(a)



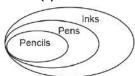
Only conclusion II follows.

Sol.26.(c)



Only conclusion I follow

Sol.27.(b)



Both conclusions (I) and (II) follow.

Sol.28.(a)



Both conclusions (I) and (II) follow.

Sol.29.(b)



Only conclusion II follows

Sol.30.(c)



Only conclusion II follows.

Sol.31.(d)



Only conclusion (I) follows.

Sol.32.(a)



Neither conclusion (I) nor (II) follow.

Sol.33.(b)



Both conclusion I and II follow

Sol.34.(b)



Only conclusion I follows.

Sol.35.(d)



Both conclusions (I) and (II) follow.

Sol.36.(b)



Neither conclusion (I) nor (II) is follow.

Sol.37.(c)



Only conclusion (II) follows.

Sol.38.(d)



Only conclusion (I) follows.

Sol.39.(b)



Neither conclusion (I) nor (II) follow.

Sol.40.(a)



Only conclusion (II) follows.

Sol.41.(c)



Neither conclusion I nor II follows.

Sol.42.(c)



Neither conclusion I nor II follows.

Sol.43.(a)



Neither conclusion (I) nor (II) follow.

Sol.44.(c)



Only conclusion (II) follows.

Sol.45.(c)



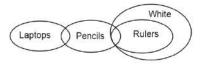
Both conclusion I and II follow.

Sol.46.(b)



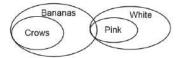
Both conclusions follow.

Sol.47.(b)



Only conclusion (I) follows.

Sol.48.(c)



Only conclusion (I) follows.

Sol.49.(d)



Only conclusion I follow.

Sol.50.(d)



Only conclusion II follows.

Sol.51.(b)



Only conclusion (II) follows.

Sol.52.(d)



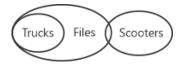
Only conclusion (II) follows.

Sol.53.(b)



Both conclusions (I) and (II) are follow.

Sol.54.(a)



Neither conclusion (I) nor (II) follows.

Embedded Figure

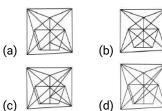
Introduction of Embedded figure- In this chapter, a figure (X) is given, followed by four complex figures in such a way that figure (X) is embedded in one and only one of them. The student has to select such a figure in which figure (X) is embedded.

For example: In the following questions, figure (X) is embedded in any one of the four alternative figures (1), (2), (3), (4). Find the alternative which contains figure (X).

1. Example -

Select the options figure embedded in the given figure as its part (rotation is not allowed).





Solution: On close observation, we find that the question figure is embedded in figure (b) as shown below.



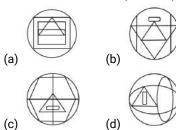
Direction:- [Q .1. - Q .9.] Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

Questions:-

Q.1.



SSC MTS 01/09/2023 (3rd Shift)



Q.2.

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SSC MTS 06/09/2023 (2nd Shift)











Q.3.



SSC MTS 06/09/2023 (3rd Shift)





(a)





Q.4.



SSC MTS 11/09/2023 (1st Shift)









Q.5.



SSC MTS 12/09/2023 (3rd Shift)





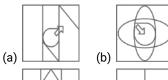




Q.6.



SSC MTS 13/09/2023 (2nd Shift)







Q.7.



SSC MTS 14/09/2023 (1st Shift)









Q.8.



SSC MTS 14/09/2023 (2nd Shift)









Q.9.



SSC MTS 14/09/2023 (3rd Shift)









Answer Key :-

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

Solutions:-

Sol.1.(c)



Sol.2.(b)



Sol.3.(b)



Sol.4.(c)



Sol.5.(d)



Sol.6.(d)



Sol.7.(b)



Sol.8.(d)



Sol.9.(c)



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ANALOGY

HOW TO SOLVE ANALOGY-

In analogy based questions, a particular relationship is given and another similar relationship has to be identified from the alternatives provided. Analogy tests are, therefore, meant to test a students/teachers overall knowledge, power of reasoning and ability to think concisely and accurately.

Before solving the questions, you have to keep in mind the following relationship.

Some important countries and their capitals:-

COUNTRY		CAPITAL
USA	\rightarrow	WASHINGTON DC
BHUTAN	\rightarrow	THIMPHU
AUSTRIA	\rightarrow	VIENNA
CANADA	\rightarrow	OTTAWA
JAPAN	\rightarrow	TOKYO
CHINA	\rightarrow	BEIJING
RUSSIA	\rightarrow	MOSCOW
AUSTRALIA	\rightarrow	CANBERRA
UK	\rightarrow	LONDON
IRAN	\rightarrow	TEHRAN
EGYPT	\rightarrow	CAIRO
GREECE	\rightarrow	ATHENS
BANGLADESH	\rightarrow	DHAKA
SRI LANKA	\rightarrow	COLOMBO
KENYA	\rightarrow	NAIROBI
SPAIN	\rightarrow	MADRID
IRAQ	\rightarrow	BAGHDAD
ITALY	\rightarrow	ROME
PAKISTAN	\rightarrow	ISLAMABAD
BRAZIL	\rightarrow	BRASILIA
CUBA	\rightarrow	HVANA
KYRGYZSTAN	\rightarrow	BISHKEK
MYANMAR	\rightarrow	NAY PYI TAW

Some important countries and their currency:

currency.		
CAPITAL		CURRENCY
UAE	\rightarrow	DIRHAM
USA	\rightarrow	DOLLAR
TURKEY	\rightarrow	LIRA
GERMANY	\rightarrow	MARK
JAPAN	\rightarrow	YEN
GREECE	\rightarrow	EURO
ARGENTINA	\rightarrow	PESO PESO
RUSSIA	\rightarrow	ROUBLE
BURMA	\rightarrow	KYAT
CHINA	\rightarrow	YUAN/RENMINBI
UK	\rightarrow	POUND
KUWAIT	\rightarrow	DINAR
SPAIN	\rightarrow	PESETA
BANGLADESH	\rightarrow	TAKA
NETHERLANDS	\rightarrow	GUILDER
SWEDEN	\rightarrow	KRONA
IRAN	\rightarrow	RIAL/TOMAN
SPAIN	\rightarrow	PESETA
THAILAND	\rightarrow	BAHT

Some important quantity and their unit :-

QUANTITY		UNIT
MASS	\rightarrow	KILOGRAM
POWER	\rightarrow	WATT
CURRENT	\rightarrow	AMPERE
WORK	\rightarrow	JULE
ANGLE	\rightarrow	RADIANS
ENERGY	\rightarrow	JULE
PRESSURE	\rightarrow	PASCAL
FORCE	\rightarrow	NEWTON
TEMPERATURE	\rightarrow	DEGREE CELSIUS
MAGNETIC FIELD) →	TESLA
POTENTIAL DIFFI	EREN	ICE → VOLT
RESISTANCE	\rightarrow	ОНМ
VOLUME	\rightarrow	CUBIC UNIT
CONDUCTANCE	\rightarrow	MHO
TIME	\rightarrow	SECONDS

Some important instruments and measurements:

INSTRUMENTS		MEASUREMENT
SCALE	\rightarrow	LENGTH
ODOMETER	\rightarrow	SPEED
AMMETER	\rightarrow	CURRENT
SEISMOGRAPH	\rightarrow	EARTHQUAKE
ANEMOMETER	\rightarrow	WIND
THERMOMETER	\rightarrow	TEMPERATURE
HYGROMETER	\rightarrow	HUMIDITY
BALANCE	\rightarrow	MASS
SCREW-GAUGE	\rightarrow	THICKNESS
TASEOMETER	\rightarrow	STRAINS

Some important animals and their young ones:

ANIMAL		YOUNG ONE
CAT	\rightarrow	KITTEN
FROG	\rightarrow	TADPOLE
STAG	\rightarrow	FAWN
SWAN	\rightarrow	CYGNET
DEER	\rightarrow	FAWN
HORSE	\rightarrow	COLT/FILLY
DUCK	\rightarrow	DUCKLING
BUTTERFLY	\rightarrow	CATERPILLAR
HEN	\rightarrow	CHICK
BEAR	\rightarrow	CUB
DOG	\rightarrow	PUPPY
LION/TIGER	\rightarrow	CUB
SHEEP	\rightarrow	LAMB
INSECT	\rightarrow	LARVA

Some important individual and their class

INDIVIDUAL		CLASS
BUTTERFLY	\rightarrow	INSECT
FROG	\rightarrow	AMPHIBIAN
OSTRICH	\rightarrow	BIRD
SNAKE	\rightarrow	REPTILE
HUMAN	\rightarrow	MAMMAL
CUP	\rightarrow	CROCKERY
WHALE	\rightarrow	MAMMAL
RAT	\rightarrow	RODENT
LIZARD	\rightarrow	REPTILE

Some important individuals and their dwelling place:

INDIVIDUAL		DWELLING PLACE
SPIDER	\rightarrow	WEB
BIRD	\rightarrow	NEST
PIG	\rightarrow	STY
ESKIMO	\rightarrow	IGL00
BEE	\rightarrow	HIVE
NUN	\rightarrow	CONVENT
LION	\rightarrow	DEN
KNIGHT	\rightarrow	MANSION
HARE	\rightarrow	BURROW
GYPSY	\rightarrow	CARAVAN
MOUSE	\rightarrow	HOLE
COW	\rightarrow	BYRE/PEN
PEASANT	\rightarrow	COTTAGE
MONK	\rightarrow	MONASTERY
EAGLE	\rightarrow	EYRIE
LUNATIC	\rightarrow	ASYLUM
HORSE	\rightarrow	STABLE
CONVICT	\rightarrow	PRISON
KING	\rightarrow	PALACE
SOLDIER	\rightarrow	BARRACKS
OWL	\rightarrow	BARN

Some important Male and Female:

Male		Female
MASTER	\rightarrow	MISTRESS
FOX	\rightarrow	VIXEN
DOG	\rightarrow	BITCH
DRONE	\rightarrow	BEE
NEPHEW	\rightarrow	NIECE
BROTHER	\rightarrow	SISTER
BULL	\rightarrow	COW
BULLOCK	\rightarrow	HEIFER
WIZARD	\rightarrow	WITCH
DRAKE	\rightarrow	DUCK
COLT	\rightarrow	FILLY
TUTOR	\rightarrow	GOVERNESS
COCK	\rightarrow	HEN
BACHELOR	\rightarrow	SPINSTER
LORD	\rightarrow	LADY
GANDER	\rightarrow	GOOSE
COCK	\rightarrow	HEN
LION	\rightarrow	LIONESS
EARL	\rightarrow	COUNTESS

Some important Games and Place of Playing

BADMINTON	\rightarrow	COURT
BOXING	\rightarrow	RING
RACE	\rightarrow	TRACK
TENNIS	\rightarrow	COURT
SKATING	\rightarrow	RINK
ATHLETICS	\rightarrow	STADIUM
HOCKEY	\rightarrow	GROUND
WRESTLING	\rightarrow	ARENA
CRICKET	\rightarrow	PITCH
EXERCISE	\rightarrow	GYMNASIUM

Some important Worker and Tool:

DOCTOR → STETHOSCOPE CARPENTER → SAW

AUTHOR	\rightarrow	PEN
GARDENER	\rightarrow	HARROW
CHEF	\rightarrow	KNIFE
MASON	\rightarrow	PLUMBLINE
LABOURER	\rightarrow	SPADE
FARMER	\rightarrow	PLOUGH
TAILOR	\rightarrow	NEEDLE
SOLDIER	\rightarrow	GUN
SCULPTOR	\rightarrow	CHISEL
WARRIOR	\rightarrow	SWORD
WOODCUTTER	\rightarrow	AXE
SURGEON	\rightarrow	SCALPEL
BLACKSMITH	\rightarrow	ANVIL

Some important Tool and Action:

KNIFE	\rightarrow	CUT
CHISEL	\rightarrow	CARVE
MATTOCK	\rightarrow	DIG
TONGS	\rightarrow	HOLD
AUGER	\rightarrow	BORE
BINOCULAR	\rightarrow	VIEW
SPADE	\rightarrow	DIG
SWORD	\rightarrow	SLAUGHTER
PEN	\rightarrow	WRITE
GUN	\rightarrow	SHOOT
AXE	\rightarrow	GRIND
SHIELD	\rightarrow	GUARD
SHOVEL	\rightarrow	SCOOP
SPANNER	\rightarrow	GRIP
LOUDSPEAKER	\rightarrow	AMPLIFY
MICROSCOPE	\rightarrow	MAGNIFY

Some important Study and Topics

	•	•
ANTHROPOLOGY	\rightarrow	MAN
PHYCOLOGY	\rightarrow	ALGAE
CRANIOLOGY	\rightarrow	SKULL
ASTROLOGY	\rightarrow	FUTURE
PATHOLOGY	\rightarrow	DISEASES
ENTOMOLOGY	\rightarrow	INSECTS
PHYSIOLOGY	\rightarrow	BODY
PEDOLOGY	\rightarrow	SOIL
OOLOGY	\rightarrow	EGGS
ICHTHYOLOGY	\rightarrow	FISHES
VIROLOGY	\rightarrow	VIRUSES
MYCOLOGY	\rightarrow	FUNGI
NEPHROLOGY	\rightarrow	KIDNEY
HAEMATOLOGY	\rightarrow	BLOOD
ECCRINOLOGY	\rightarrow	SECRETIONS
PALAEOGRAPHY	\rightarrow	WRITINGS
ONOMATOLOGY	\rightarrow	NAMES
ARCHEOLOGY	\rightarrow	ARTIFACTS
SELENOLOGY	\rightarrow	MOON
CARDIOLOGY	\rightarrow	HEART
ZOOLOGY	\rightarrow	ANIMALS

In **Number analogy** questions the first term is related to the second term in so many ways like:- difference b/w the numbers, prime no,square, cube , digit sum, divisibility, and addition, subtraction, multiplication, division of the numbers.

Example: 1 Select the option that is

related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

13:120::17:152::21:?

Solution:-

In 13:120,

13 : $(13 + 2) \times 8 = 13 : 15 \times 8 = 13 : 120$

In 17:152,

 $17: (17 + 2) \times 8 = 17: 19 \times 8 = 17: 152$

In 21: (?),

 $21:(21+2)\times8=21:23\times8=21:184$

Example:2 Select the option in which the two numbers are related in the same way as are the two numbers of the following number-pair.

25:343

(a) 24:216 (b) 29:121 (c) 34:510 (d) 30:729

Solution:-

Logic: (Sum of digits): (number)³

 \Rightarrow 25 : 343 \Rightarrow (5 + 2) = 7 : (7)³

Similarly,

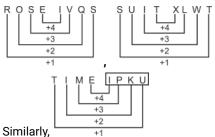
 \Rightarrow 24 :: 216 \Rightarrow (4+2) = 6 :: (6)³

In **alphabetical analogy** questions the first term is related to the second term in so many ways like:- same difference b/w alphabet , Reverse of the alphabet, and add, subtract, multiply, divide the same number,and on the basis of vowel & consonant.

Example : 1 Select the option that is related to the fifth letter- cluster in the same way as the second letter - cluster is related to the first letter - cluster and the fourth letter - cluster is related to the third letter - cluster.

ROSE: IVQS:: SUIT: XLWT:: TIME:?

Solution:-



Questions:-

Q.1. 287 is related to 398 following a certain logic. Following the same logic, 378 is related to 489. To which of the following is 852 related to, following the same logic?

SSC MTS 01/09/2023 (1st Shift) (a) 643 (b) 963 (c) 346 (d) 543 **Q.2.** 38 is related to 49 following a certain logic. Following the same logic, 64 is related to 75. To which of the following is 83 related to, following the same logic?

SSC MTS 01/09/2023 (1st Shift)

(a) 93 (b) 95 (c) 92 (d) 94

Q.3. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Reflection: Light

SSC MTS 01/09/2023 (1st Shift)

(a) Sentiment : Feeling (b) Echo : Sound (c) Iris : Sight (d) Movie : Scene

Q.4. FKQN is related to LQWT in a certain way based on the English alphabetical order. In the same way, CHOJ is related to INUP. To which of the following is DOSG related to, following the same logic?

SSC MTS 01/09/2023 (2nd Shift)

(a) JSWM (b) JUYM (c) IUVL (d) HQWK

Q.5. 284 is related to 142 following a certain logic. Following the same logic, 612 is related to 306. To which of the following is 522 related to, following the same logic?

SSC MTS 01/09/2023 (2nd Shift)
(a) 262 (b) 261 (c) 263 (d) 264

Q.6. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(5, 24)

(12, 143)

SSC MTS 01/09/2023 (2nd Shift)

(a) 27, 345

(b) 14, 195

(c) 18, 652

(d) 21, 126

Q.7. HM 12 is related to FK 17 in a certain way. In the same way, EK 18 is related to Cl 23. To which of the following is GU 14 related to following the same logic?

SSC MTS 01/09/2023 (3rd Shift)
(a) ES 19 (b) IW 20 (c) ER 18 (d) FS 19

Q.8. Select the set in which the numbers are related in the same way as are the

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numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(5, 35, 7)

(9, 27, 3)

SSC MTS 01/09/2023 (3rd Shift)

(a) 16, 50, 7

(b) 6, 42, 7

(c) 4, 10, 5

(d) 6, 17, 9

Q.9. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

16:95

6:35

SSC MTS 01/09/2023 (3rd Shift)

(a) 8:48 (b) 13:77 (c) 2:13 (d) 17:23

Q.10. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

8:50 4:30

SSC MTS 04/09/2023 (1st Shift)

(a) 20:40 (b) 6:20 (c) 7:45 (d) 5:8

Q.11. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

5, 128

9, 732

SSC MTS 04/09/2023 (1st Shift)

(a) 5, 50 (b) 3, 30 (c) 4, 46 (d) 2, 13

Q.12. 'DKJE' is related to 'IPOJ' in a certain way based on the English alphabetical order. In the same way, GTSM is related to LYXR. To which of the following is RBNF related to, following the same logic?

SSC MTS 04/09/2023 (1st Shift)

(a) WGSK (b) XERJ (c) WEQK (d) VGQI

Q.13. 2 is related to 40 following a certain logic. Following the same logic, 5 is related to 250. To which of the following is 7 related to, following the same logic?

SSC MTS 04/09/2023 (2nd Shift)

(a) 470 (b) 490 (c) 450 (d) 400

Q.14. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

65, 74

87.96

SSC MTS 04/09/2023 (2nd Shift)

(a) 75, 123

(b) 63, 157

(c) 81, 156 (d) 92, 101

Q.15. Select the word-pair that best represents the same relationship expressed in the pair of words given below.

(The words should be treated as meaningful Hindi words and should not be related to each other on the basis of number of letters/consonants/vowels in the word.)

Appreciate: praise

SSC MTS 04/09/2023 (2nd Shift)

(a) To Treat : Serving(b) To persuade : to reject(c) To beautify : to refresh

(d) Teach: learn

Q.16. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(4, 55, 7)

(2, 35, 5)

SSC MTS 04/09/2023 (3rd Shift)

(a) 41, 156, 7

(b) 12, 346, 9

(c) 32, 175, 3

(d) 19, 122, 8

Q.17. DK 18 is related to EM 22 in a certain way. In the same way, ME 25 is related to NG 29. To which of the following is UL14 related to following the same logic?

SSC MTS 04/09/2023 (3rd Shift)

(a) VM 19 (b) WN 18 (c) XO 17 (d) VN 18

Q.18. 13 is related to 174 following a certain logic. Following the same logic, 15 is related to 230. To which of the following is 17 related to, following the

same logic?

SSC MTS 04/09/2023 (3rd Shift)

(a) 291 (b) 292 (c) 293 (d) 294

Q.19. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

11:60 13:70

SSC MTS 05/09/2023 (1st Shift)

(a) 19:90

(b) 15:80

(c) 17:85

(d) 21:100

Q.20. KGTO is related to HDQL in a certain way based on the English alphabetical order. In the same way, YFSH is related to VCPE. To which of the following is GUMS related to, following the same logic?

SSC MTS 05/09/2023 (1st Shift)

(a) JXOU (b) DSKP (c) ESKU (d) DRJP

Q.21. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(2, 14, 28)

(7, 11, 77)

SSC MTS 05/09/2023 (1st Shift)

(a) 4, 7, 23

(b) 6, 9, 54

(c) 1, 7, 45

(d) 8, 6, 98

Q.22. JR 11 is related to KT 16 in a certain way. In the same way, VM 22 is related to WO 27. To which of the following is DS 18 related to following the same logic?

SSC MTS 05/09/2023 (2nd Shift)
(a) CQ 24 (b) EU 23 (c) FU 23 (d) FT 22

Q.23. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

12:144

13:169

SSC MTS 05/09/2023 (2nd Shift)

(a) 9:80

(b) 10:90

(c) 15:225

(d) 14:182

Q.24. 5 is related to 19 following a certain logic. Following the same logic, 8 is related to 31. To which of the following is 13 related to, following the same logic? SSC MTS 05/09/2023 (2nd Shift)

(a) 51 (b) 52 (c) 53 (d) 50

Q.25. 21 is related to 147 following a certain logic, Following the same logic, 32 is related to 224, To which of the following is 52 related to, following the same logic?

SSC MTS 05/09/2023 (3rd Shift)

(a) 356 (b) 364 (c) 365 (d) 346

Q.26. Select the word-pair that best represents the same relationship expressed in the pair of words given below.

(The words should be treated as meaningful Hindi words and should not be related to each other on the basis of number of letters/consonants/vowels in the word)

stammer: conversation

SSC MTS 05/09/2023 (3rd Shift)

(a) Astigmatism: Sight (b) noise : hearing

(c) Aroma: Smell

(d) Novocaine: touch

Q.27. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

11, 110

19, 190

SSC MTS 05/09/2023 (3rd Shift)

(a) 31, 310

(b) 22, 440

(c) 91, 190

(d) 51, 150

Q.28. LCNT is related to NEPV in a certain way based on the English alphabetical order. In the same way, HBER is related to JDGT. To which of the following is OSCF related to, following the same logic?

SSC MTS 06/09/2023 (1st Shift)

(a) PUDJ (b) RVEH (c) QVEI (d) QUEH

Q.29. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(8,720,9)

(16, 800, 5)

SSC MTS 06/09/2023 (1st Shift)

(a) 7, 125, 8

(b) 13, 169, 5

(c) 14, 238, 5

(d) 18, 1260, 7

Q.30. 8 is related to 40 following a certain logic. Following the same logic, 3 is related to 15. To which of the following is 52 related to, following the same logic? SSC MTS 06/09/2023 (1st Shift)

(a) 261 (b) 262 (c) 260 (d) 263

Q.31. 21 is related to 86 following a certain logic. Following the same logic, 33 is related to 134. To which of the following is 25 related to, following the same logic?

SSC MTS 06/09/2023 (2nd Shift)

(a) 100 (b) 103 (c) 102 (d) 101

Q.32. BJTI is related to EMWL in a certain way based on the English alphabetical order. In the same way, HDRL is related to KGUO. To which of the following is OCGM related to, following the same logic?

SSC MTS 06/09/2023 (2nd Shift)

(a) RFIO (b) SEKO (c) RFJP (d) QEIR

Q.33. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(14, 13, 32)

(21, 13, 39)

SSC MTS 06/09/2023 (2nd Shift)

(a) 15, 7, 18

(b) 19, 12, 36

(c) 5, 19, 88

(d) 11, 14, 43

Q.34. CZMB is related to NNAM in a certain way based on the English alphabetical order. In the same way, LKQD is related to WRLO. To which of the following is HNTF related, following the same logic?

SSC MTS 06/09/2023 (3rd Shift)

(a) SQOU (b) SUOQ (c) SOUQ (d) SUQO

Q.35. 27 is related to 36 following a certain logic. Following the same logic, 69 is related to 78. To which of the following is 53 related to, following the same logic?

SSC MTS 06/09/2023 (3rd Shift)

(a) 63 (b) 64 (c) 62 (d) 61

Q.36. 28 is related to 12 following a certain logic. Following the same logic, 42 is related to 19.To which of the following is 52 related to, following the same logic?

SSC MTS 06/09/2023 (3rd Shift)

(a) 23 (b) 25 (c) 24 (d) 22

Q.37. In the following number-pairs, the

second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

7, 13

18, 35

SSC MTS 08/09/2023 (1st Shift)

(a) 77, 98 (b) 22, 43 (c) 32, 64 (d) 44, 76

Q.38. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Cricket: Pitch

SSC MTS 08/09/2023 (1st Shift)

(a) Wrestling: Track (b) Ship: Dock

(c) Boxing: Ring

(d) Boat : Harbour

Q.39. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

53,90

79. 116

SSC MTS 08/09/2023 (1st Shift)

(a) 47, 84 (b) 31, 94 (c) 59, 98 (d) 42, 59

Q.40. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters / number of consonants / vowels in the word)

Correspond: Letters

SSC MTS 08/09/2023 (2nd Shift)

(a) Barter : Commodities (b) Trespass : Boundaries (c) Arbitrate : Controversies

(d) Debate: Problems

Q.41. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

2,7

5, 16

SSC MTS 08/09/2023 (2nd Shift)

(a) 14, 45 (b) 11, 23 (c) 20, 58 (d) 15, 46

Q.42. 16 is related to 29 following a certain logic. Following the same logic, 85 is related to 98. To which of the following is 53 related to, following the same logic?

SSC MTS 08/09/2023 (2nd Shift)

(a) 66 (b) 62 (c) 64 (d) 68

Q.43. 17 is related to 52 following a certain logic. Following the same logic, 42 is related to 127. To which of the following is 29 related to, following the same logic?

SSC MTS 08/09/2023 (3rd Shift)

(a) 84 (b) 88 (c) 86 (d) 82

Q.44. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed

on the whole numbers, without breaking down the numbers into its constituent digits.)

(5, 11, 80)

(6, 12, 90)

SSC MTS 08/09/2023 (3rd Shift)

(a) 4, 19, 148

(b) 9, 11, 67

(c) 7, 17, 120

(d) 2, 16, 123

Q.45. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Scissors: Cloth

SSC MTS 08/09/2023 (3rd Shift)

(a) Pen: Ink

(b) Razor : Beard

(c) Nail: Hammer (d) Furnace: Smoke

Q.46. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Legend : Map

SSC MTS 11/09/2023 (1st Shift)

(a) Volume : Guidebook(b) Glossary : Text

(c) Column: Essay

(d) Profession: Biography

Q.47. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

8,128

9,162

SSC MTS 11/09/2023 (1st Shift)

(a) 11, 124

(b) 14, 392

(c) 12, 149

(d) 13, 170

Q.48. in the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

16:41 11:26

SSC MTS 11/09/2023 (1st Shift)

(a) 7:28 (b) 5:15 (c) 21:84 (d) 12:29

Q.49. 5 is related to 24 following a certain logic. Following the same logic, 9 is related to 80. To which of the following is 14 related to, following the same logic? SSC MTS 11/09/2023 (2nd Shift)

(a) 197 (b) 195 (c) 196 (d) 198

Q.50. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(2, 8, 32)

(5, 7, 70)

SSC MTS 11/09/2023 (2nd Shift)

(a) 7, 12, 84

(b) 3, 5, 15

(c) 6, 11, 56

(d) 4, 12, 96

Q.51. EH 11 is related to CF 16 in a certain way. In the same way. JV 15 is related to HT 20. To which of the following is FN 13 related to following the same logic?

SSC MTS 11/09/2023 (2nd Shift)

(a) DK 19 (b) CL 18 (c) EM 17 (d) DL 18

Q.52. 22 is related to 198 following a certain logic. Following the same logic, 41 is related to 369. To which of the

following is 54 related to, following the same logic?

SSC MTS 11/09/2023 (3rd Shift)

(a) 286 (b) 486 (c) 268 (d) 468

Q.53. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Bacteria : Decomposition

SSC MTS 11/09/2023 (3rd Shift)

(a) Oxygen: Treatment(b) Yeast: Fermentation(c) Volcano: Eruption(d) Antibiotic: Injection

Q.54. 11 is related to 123 following a certain logic. Following the same logic, 20 is related to 402. To which of the following is 13 related to, following the same logic?

SSC MTS 11/09/2023 (3rd Shift)

(a) 171 (b) 172 (c) 173 (d) 174

Q.55. 18 is related to 54 following a certain logic. Following the same logic, 21 is related to 63. To which of the following is 72 related to, following the same logic?

SSC MTS 12/09/2023 (1st Shift)

(a) 222 (b) 220 (c) 218 (d) 216

Q.56. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(25, 49, 73)

(34, 23, 12)

SSC MTS 12/09/2023 (1st Shift)

(a) 5, 35, 17

(b) 11, 9, 18

(c) 18, 22, 26

(d) 13, 15, 19

Q.57. MEOP is related to KCMN in a certain way based on the English alphabetical order. In the same way, LTDG is related to JRBE. To which of the following is UNTF related to, following the same logic?

SSC MTS 12/09/2023 (1st Shift)

(a) SMRE (b) SLRD (c) VPUH (d) TOSG

Q.58. 2 is related to 5 following a certain logic. Following the same logic, 6 is related to 37. To which of the following is 9 related to, following the same logic? SSC MTS 12/09/2023 (2nd Shift)

(a) 81 (b) 83 (c) 82 (d) 84

SSC MTS Chapter Wise

Q.59. PD 17 is related to TH 19 in a certain way. Similarly, HK 23 is related to LO 29. Following the same logic FJ 11 is related to which of the following? SSC MTS 12/09/2023 (2nd Shift)
(a) IM 13 (b) HL 17 (c) IN 15 (d) JN 13

Q.60. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(32, 99, 67)

(22, 77, 55)

SSC MTS 12/09/2023 (2nd Shift)

(a) 53, 98, 33

(b) 23, 87, 64

(c) 35, 87, 12

(d) 12, 45, 14

Q.61. 78 is related to 69 following a certain logic. Following the same logic, 57 is related to 48. To which of the following is 94 related to, following the same logic?

SSC MTS 12/09/2023 (3rd Shift)

(a) 83 (b) 85 (c) 82 (d) 84

Q.62. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent

digits.) 12:44

8:28

SSC MTS 12/09/2023 (3rd Shift)

(a) 9:32 (b) 7:28 (c) 15:35 (d) 10:38

Q.63. DTGB is related to FVID in a certain way based on the English alphabetical order. In the same way, VRCK is related to XTEM. To which of the following is JAHM related to, following the same logic?

SSC MTS 12/09/2023 (3rd Shift)
(a) KBJP (b) LDKO (c) MCKP (d) LCJO

- **Q.64.** 8 is related to 59 following a certain logic. Following the same logic, 9 is related to 76. To which of the following is 25 related to, following the same logic? SSC MTS 13/09/2023 (1st Shift)
 (a) 620 (b) 635 (c) 630 (d) 625
- **Q.65.** TDWP is related to RBUN in a certain way based on the English alphabetical order. In the same way, FJMH is related to DHKF. To which of the following is SENP related to, following the same logic?

SSC MTS 13/09/2023 (1st Shift)
(a) PDKN (b) QCLN (c) RCMN (d) QDKO

Q.66. 8 is related to 88 following a certain logic. Following the same logic, 11 is related to 121. To which of the following is 15 related to, following the same logic?

SSC MTS 13/09/2023 (1st Shift)
(a) 163 (b) 165 (c) 164 (d) 162

Q.67. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Lava: Volcano

SSC MTS 13/09/2023 (2nd Shift)

(a) Avalanche: Ice(b) Ice: Glass(c) Steam: Geyser(d) Cascade: Precipice

Q.68. 10 is related to 97 following a certain logic. Following the same logic, 12 is related to 141. To which of the following is 14 related to, following the same logic?

SSC MTS 13/09/2023 (2nd Shift) (a) 193 (b) 191 (c) 194 (d) 192

Q.69. 12 is related to 59 following a certain logic. Following the same logic, 17 is related to 84. To which of the following is 19 related to, following the same logic?

SSC MTS 13/09/2023 (2nd Shift)

(a) 91 (b) 94 (c) 93 (d) 92

Q.70. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Horse: Mare

SSC MTS 13/09/2023 (3rd Shift)

(a) Fox : Vixen (b) Duck : Geese

(c) Donkey: Pony (d) Dog: Puppy

Q.71. 4 is related to 14 following a certain logic. Following the same logic, 7 is related to 26. To which of the following is 9 related to, following the same logic? SSC MTS 13/09/2023 (3rd Shift)

(a) 37 (b) 36 (c) 34 (d) 35

Q.72. 2 is related to 7 following a certain

logic. Following the same logic, 4 is related to 63. To which of the following is 9 related to, following the same logic? SSC MTS 13/09/2023 (3rd Shift)
(a) 730 (b) 728 (c) 731 (d) 729

Q.73. RN 12 is related to PL 16 in a certain way. In the same way, EJ 17 is related to CH 21. To which of the following is FL 15 related to following the same logic?

SSC MTS 14/09/2023 (1st Shift)

(a) DJ 19 (b) HN 18 (c) Cl 20 (d) DK 19

Q.74. 428 is related to 317 following a certain logic. Following the same logic, 285 is related to 174. To which of the following is 597 related to, following the same logic?

SSC MTS 14/09/2023 (1st Shift)
(a) 386 (b) 368 (c) 468 (d) 486

Q.75. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

(14, 42, 7)

(12, 34, 5)

SSC MTS 14/09/2023 (1st Shift)

(a) 43, 144, 29

(b) 17, 102, 5

(c) 25, 131, 2

(d) 36, 702, 2

Q.76. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

7, 50 15, 226

SSC MTS 14/09/2023 (2nd Shift)

(a) 21, 445

(b) 11, 131

(c) 14, 162

(d) 17, 290

Q.77. OE 13 is related to MC 17 in a certain way. In the same way, FL 16 is related to DJ 20. To which of the following is RD 15 related to following the same logic?

SSC MTS 14/09/2023 (2nd Shift)

(a) SF 18 (b) QE 18 (c) PB 19 (d) PC 19

Q.78. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits.)

3:7 5:23

SSC MTS 14/09/2023 (2nd Shift)

(a) 6:34 (b) 8:64 (c) 9:80 (d) 4:18

Q.79. 14 is related to 57 following a certain logic. Following the same logic, 22 is related to 89. To which of the following is 52 related to, following the same logic?

SSC MTS 14/09/2023 (3rd Shift) (a) 209 (b) 208 (c) 206 (d) 204

Q.80. BNFT is related to FRJX in a certain way based on the English alphabetical order. In the same way, JOEA is related to NSIE. To which of the following is HERK related to, following the same logic?

SSC MTS 14/09/2023 (3rd Shift)
(a) LJVP (b) JHVP (c) LIVO (d) KHUN

Q.81. 5 is related to 20 following a certain logic. Following the same logic, 7 is related to 26. To which of the following is 2 related to, following the same logic? SSC MTS 14/09/2023 (3rd Shift)

(a) 11 (b) 13 (c) 10 (d) 12

Answer Key :-

1.(b)	2.(d)	3.(b)	4.(b)
5.(b)	6.(b)	7.(a)	8.(b)
9.(b)	10.(c)	11.(b)	12.(a)
13.(b)	14.(d)	15.(a)	16.(c)
17.(d)	18.(d)	19.(b)	20.(d)
21.(b)	22.(b)	23.(c)	24.(a)
25.(b)	26.(a)	27.(a)	28.(d)
29.(d)	30.(c)	31.(c)	32.(c)
33.(b)	34.(b)	35.(c)	36.(c)
37.(b)	38.(c)	39.(a)	40.(a)
41.(d)	42.(a)	43.(b)	44.(c)
45.(b)	46.(b)	47.(b)	48.(d)
49.(b)	50.(d)	51.(d)	52.(b)
53.(b)	54.(a)	55.(d)	56.(c)
57.(b)	58.(c)	59.(d)	60.(b)
61.(b)	62.(a)	63.(d)	64.(a)
65.(b)	66.(b)	67.(c)	68.(a)
69.(b)	70.(a)	71.(c)	72.(b)
73.(a)	74.(d)	75.(a)	76.(d)
77.(c)	78.(a)	79.(a)	80.(c)
81.(a)			

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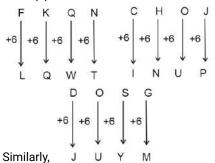
Solutions:-

Sol.1.(b) Logic: (2nd num - 1st num) = 111 $(287 - 398) \rightarrow 398 - 287 = 111$ $(378 - 489) \rightarrow 489 - 378 = 111$ Similarly, $(852 - x) \rightarrow x - 852 = 111$ $\Rightarrow x = 852 + 111 = 963$

Sol.2.(d) Logic: (2nd num - 1st num) = 11 $(38 - 49) \rightarrow 49 - 38 = 11$ $(64 - 75) \rightarrow 75 - 64 = 11$ Similarly, $(83 - x) \rightarrow x - 83 = 11 \Rightarrow x = 83 + 11 = 9$

Sol.3.(b) As Reflection is a property of light similarly Echo is a property of Sound.

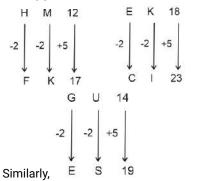
Sol.4.(b)



Sol.5.(b) Logic: $(2nd num \times 2) = 1st num$ $(284 - 142) \rightarrow 142 \times 2 = 284$ $(612 - 306) \rightarrow 306 \times 2 = 612$ Similarly, $(522 - y) \rightarrow y \times 2 = 522$ $\Rightarrow y = (522 \div 2) = 261$

Sol.6.(b) Logic: $(1st num)^2 - 1 = 2nd num$ $(5, 24) \rightarrow 5^2 - 1 \Rightarrow 25 - 1 = 24$ $(12, 143) \rightarrow 12^2 - 1 \Rightarrow 144 - 1 = 143$ Similarly, $(14, 195) \rightarrow 14^2 - 1 \Rightarrow 196 - 1 = 195$

Sol.7.(a)



Sol.8.(b)

Logic: (1st num × 3rd num) = 2nd num $(5, 35, 7) \rightarrow 5 \times 7 = 35$ $(9, 27, 3) \rightarrow 9 \times 3 = 27$ Similarly, $(6, 42, 7) \rightarrow 6 \times 7 = 42$

Sol.9.(b)

Logic: $(1st num \times 6) - 1 = 2nd num 16: 95 \rightarrow (16 \times 6) - 1 \Rightarrow 96 - 1 = 95$

6:35 → (6×6) - 1 ⇒ 36 - 1 = 35 Similarly,

13:77 \rightarrow (13 × 6) - 1 \Rightarrow 78 - 1 = 77

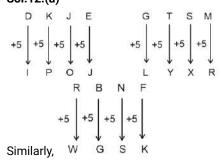
Sol.10.(c)

Logic: (1st num × 5) + 10 = 2nd num 8:50 \rightarrow (8 × 5) + 10 \Rightarrow 40 + 10 = 50 4:30 \rightarrow (4 × 5) + 10 \Rightarrow 20 + 10 = 30 Similarly, 7:45 \rightarrow (7 × 5) + 10 \Rightarrow 35 + 10 = 45

Sol.11.(b)

Logic: $(1st num)^3 + 3 = 2nd num$ $5, 128 \rightarrow 5^3 + 3 \Rightarrow 125 + 3 = 128$ $9, 732 \rightarrow 9^3 + 3 \Rightarrow 729 + 3 = 732$ Similarly, $3, 30 \rightarrow 3^3 + 3 \Rightarrow 27 + 3 = 30$

Sol.12.(a)



Sol.13.(b)

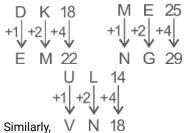
Logic: $(1st num)^2 \times 10 = 2nd num$ 2: $40 \rightarrow 2^2 \times 10 \Rightarrow 4 \times 10 = 40$ 5: $250 \rightarrow 5^2 \times 10 \Rightarrow 25 \times 10 = 250$ Similarly, 7: $490 \rightarrow 7^2 \times 10 \Rightarrow 49 \times 10 = 490$

Sol.14.(d) Logic: (2nd num - 1st num) = 9 $(65, 74) \rightarrow 74 - 65 = 9$ $(87, 96) \rightarrow 96 - 87 = 9$ Similarly, $(92, 101) \rightarrow 101 - 92 = 9$

Sol.15.(a) Just as appreciation and praise are synonyms, similarly giving a treat and serving are synonyms.

Sol.16.(c) Logic: (1st num + 3rd num) × 5 = 2nd num $(4, 55, 7) \rightarrow (4 + 7) \times 5 \Rightarrow 11 \times 5 = 55$ $(2, 35, 5) \rightarrow (2 + 5) \times 5 \Rightarrow 7 \times 5 = 35$ Similarly, $(32, 175, 3) \rightarrow (32 + 3) \times 5 \Rightarrow 35 \times 5 = 175$

Sol.17.(d)



Sol.18.(d)

Logic: $(1st num)^2 + 5 = 2nd num$ $(13:174) \rightarrow (13)^2 + 5 \Rightarrow 169 + 5 = 174$ $(15:230) \rightarrow (15)^2 + 5 \Rightarrow 225 + 5 = 230$ Similarly,

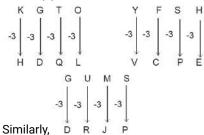
 $(17:?) \rightarrow (17)^2 + 5 \Rightarrow 289 + 5 = 294$

Sol.19.(b)

Logic: (1st num × 5) + 5 = 2nd num 11: $60 \rightarrow (11 \times 5) + 5 \Rightarrow 55 + 5 = 60$ 13: $70 \rightarrow (13 \times 5) + 5 \Rightarrow 65 + 5 = 70$ Similarly,

 $15:80 \rightarrow (15 \times 5) + 5 \Rightarrow 75 + 5 = 80$

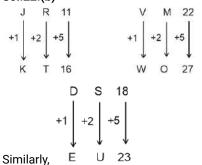
Sol.20.(d)



Sol.21.(b)

Logic: (1st num × 2nd num) = 3rd num (2, 14, 28) \rightarrow 2 × 14 = 28 (7, 11, 77) \rightarrow 7 × 11 = 77 Similarly, (6, 9, 54) \rightarrow 6 × 9 = 54

Sol.22.(b)



Sol.23.(c)

Logic: $(1st number)^2 = 2nd number$ 12: $144 \rightarrow 12^2 = 144$ 13: $169 \rightarrow 13^2 = 169$ Similarly, 15: $225 \rightarrow 15^2 = 225$

Sol.24.(a)

Logic: (1st num. × 4) - 1 = 2nd num. 5: 19 \rightarrow (5 × 4) - 1 \Rightarrow 20 - 1 = 19 8: 31 \rightarrow (8 × 4) - 1 \Rightarrow 32 - 1 = 31 Similarly, 13: ? \rightarrow (13 × 4) - 1 \Rightarrow 52 - 1 = 51

Sol.25.(b)

Logic:- (1st number \times 7) = (2nd number) (21, 147):- (21 \times 7) = 147 (32, 224):- (32 \times 7) = 224 Similarly, (52, 364):- (52 \times 7) = 364

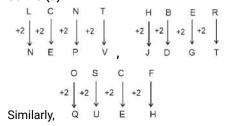
Sol.26.(a) As stammer is antonym of conversation similarly, astigmatism is an antonym of vision.

Sol.27.(a)

Logic: $(1st number \times 10) = 2nd number (11, 110) :- <math>(11 \times 10) = 110$

(19, 190):- (19 × 10) = 190 Similarly, (31, 310):- (31 × 10) = 310

Sol.28.(d)



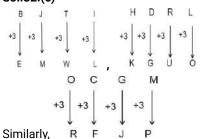
Sol.29.(d) Logic :- (1st number \times 3rd number) \times 10 = 2nd number (8, 720, 9) :- (8 \times 9) \times 10 \Rightarrow (72 \times 10) = 720 (16, 800, 5) :- (16 \times 5) \times 10 \Rightarrow (80) \times 10 = 800 Similarly, (18, 1260, 7) :- (18 \times 7) \times 10 \Rightarrow (126) \times 10 = 1260

Sol.30.(c)

Logic:- (1st number \times 5) = 2nd number (8, 40):- (8 \times 5) = 40 (3, 15):- (3 \times 5) = 15 Similarly, (52, ?):- (52 \times 5) = 260

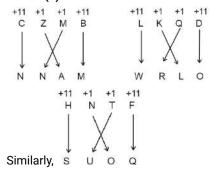
Sol.31.(c) Logic :- (1st number \times 4) + 2 = 2nd number (21, 86) :- (21 \times 4) + 2 \Rightarrow 84 + 2 = 86 (33, 134) :- (33 \times 4) + 2 \Rightarrow 132 + 2 = 134 Similarly, (25, ?) :- (25 \times 4) + 2 \Rightarrow 100 + 2 = 102

Sol.32.(c)



Sol.33.(b) Logic: (1st number + 2nd number) + 5 = 3rd number (14, 13, 32):- (14 + 13) + 5 \Rightarrow 27 + 5 = 32 (21, 13, 39):- (21 + 13) + 5 \Rightarrow 34 + 5 = 39 Similarly, (19, 12, 36):- (19 + 12) + 5 \Rightarrow 31 + 5 = 36

Sol.34.(b)



Sol.35.(c) Logic: (2nd num - 1st num) = 9 $(27:36) \rightarrow 36-27=9$ $(69:78) \rightarrow 78-69=9$ Similarly, $(53:?) \rightarrow ?-53=9 \Rightarrow ?=53+9=62$

Sol.36.(c)

Logic: $(2nd num \times 2) + 4 = 1st num$ $28: 12 \rightarrow (12 \times 2) + 4 \Rightarrow 24 + 4 = 28$ $42: 19 \rightarrow (19 \times 2) + 4 \Rightarrow 38 + 4 = 42$ Similarly, $52: ? \rightarrow (24 \times 2) + 4 \Rightarrow 48 + 4 = 52$

Sol.37.(b) Logic :- (1st number × 2) - 1 = 2nd number (7, 13) :- (7 × 2) - 1 = 13 (18, 35) :- (18 × 2) - 1 = 35 Similarly, (22, 43) :- (22 × 2) - 1 = 43

Sol.38.(c) As cricket is played on the pitch similarly boxing occur in the ring.

Sol.39.(a)

Logic: - (2nd number - 1st number) = 37 (53, 90): - (90 - 53) = 37 (79, 116): - (116 - 79) = 37 Similarly, (47, 84): - (84 - 47) = 37

Sol.40.(a) As Correspond means to engage in an exchange of letters similarly Barter is the exchange of goods or services for other goods or services without using money

Sol.41.(d)

Logic: $(1st num \times 3) + 1 = 2nd num 2, 7 \rightarrow (2 \times 3) + 1 \Rightarrow 6 + 1 = 7 5, 16 \rightarrow (5 \times 3) + 1 \Rightarrow 15 + 1 = 16$ Similarly, $15, 46 \rightarrow (15 \times 3) + 1 \Rightarrow 45 + 1 = 46$

Sol.42.(a) Logic: (2nd num - 1st num) = 13 16: 29 \rightarrow 29 -16 = 13 85: 98 \rightarrow 98 - 85 = 13 Similarly, 53: ? \rightarrow x - 53 = 13 \Rightarrow x = 53 + 13 = 66

Sol.43.(b) Logic:- (1st number × 3) + 1 = 2nd number (17, 52):- (17 × 3) + 1 = 52 (42, 127):- (42 × 3) + 1 = 127 Similarly, (29, ?):- (29 × 3) + 1 = 88

Sol.44.(c) Logic :- (1st number + 2nd number) \times 5 = 3rd number (5, 11, 80) :- (5 + 11) \times 5 \Rightarrow (16 \times 5) = 80 (6, 12, 90) :- (6 + 12) \times 5 \Rightarrow (18 \times 5) = 90 Similarly, (7, 17, 120) :- (7 + 17) \times 5 \Rightarrow (24 \times 5)= 120

Sol.45.(b) Just as clothes are cut with scissors, a beard is shaved with a razor.

Sol.46.(b) As a legend is a list of symbols that appear on the map similarly a glossary is a collection of words

pertaining to a specific topic.

Sol.47.(b)

Logic: $(1st number)^2 \times 2 = 2nd number 8, 128 \rightarrow 8^2 \times 2 \Rightarrow 64 \times 2 = 128 9, 162 \rightarrow 9^2 \times 2 \Rightarrow 81 \times 2 = 162$ Similarly, $14, 392 \rightarrow 14^2 \times 2 \Rightarrow 196 \times 2 = 392$

Sol.48.(d)

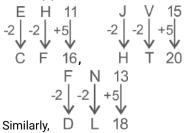
Logic: (1st num × 3) - 7 = 2nd num 16: 41 \rightarrow (16 × 3) - 7 \Rightarrow 48 - 7 = 41 11: 26 \rightarrow (11 × 3) - 7 \Rightarrow 33 - 7 = 26 Similarly, 12: 29 \rightarrow (12 × 3) - 7 \Rightarrow 36 - 7 = 29

Sol.49.(b)

Logic:- $(1st number)^2 - 1 = 2nd number$ (5, 24):- $(5)^2 - 1 = 24$ (9, 80):- $(9)^2 - 1 = 80$ Similarly, (14, ?):- $(14)^2 - 1 = 195$

Sol.50.(d) Logic :- (1st number \times 2nd number) \times 2 = 3rd number (2, 8, 32) :- (2 \times 8) \times 2 \Rightarrow (16) \times 2 = 32 (5, 7, 70) :- (5 \times 7) \times 2 \Rightarrow (35) \times 2 = 70 Similarly, (4, 12, 96) :- (4 \times 12) \times 2 \Rightarrow (48) \times 2 = 96

Sol.51.(d)



Sol.52.(b)

Logic: $(1st num \times 9) = 2nd num$ 22: $198 \rightarrow 22 \times 9 = 198$ 41: $369 \rightarrow 41 \times 9 = 369$ Similarly, $54:? \rightarrow 54 \times 9 = 486$

Sol.53.(b) As Bacteria are the major microbes that help in the decomposition process similarly Yeast is the major microbes that help in the fermentation process.

Sol.54.(a)

Logic: $(1st num)^2 + 2 = 2nd num$ 11: $123 \rightarrow 11^2 + 2 \Rightarrow 121 + 2 = 123$ 20: $402 \rightarrow 20^2 + 2 \Rightarrow 400 + 2 = 402$ Similarly,

 $13:? \rightarrow 13^2 + 2 \Rightarrow 169 + 2 = 171$

Sol.55.(d)

Logic:- (1st number \times 3) = 2nd number (18, 54):- (18 \times 3) = 54 (21, 63):- (21 \times 3) = 63 Similarly, (72, 216):- (72 \times 3) = 216

Sol.56.(c) Logic :- (1st number + 3rd number) \div 2 = (2nd number)

$$(25, 49, 73) \div (25 + 73) \div 2$$

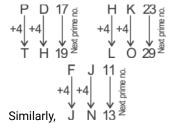
 $\Rightarrow (98) \div 2 = 49$
 $(34, 23, 12) \div (34 + 12) \div 2$
 $\Rightarrow (46) \div 2 = 23$
Similarly, $(18, 22, 26) \div (18 + 26) \div 2$
 $\Rightarrow (44) \div 2 = 22$

Sol.57.(b)

Sol.58.(c)

Logic: $(1st number)^2 + 1 = 2nd number$ 2:5 \rightarrow 2² + 1 \Rightarrow 4 + 1 = 5 6:37 \rightarrow 6² + 1 \Rightarrow 36 + 1 = 37 Similarly, 9:? \rightarrow 9² + 1 \Rightarrow 81 + 1 = 82

Sol.59.(d)



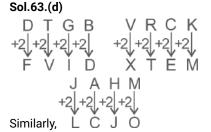
Sol.60.(b) Logic: (2nd number - 1st number) = 3rd number (32, 99, 67) \rightarrow 99 - 32 = 67 (22, 77,55) \rightarrow 77 - 22 = 55 Similarly, (23, 87, 64) \rightarrow 87 - 23 = 64

Sol.61.(b)

Logic: (1st number - 2nd number) = 9 (78, 69): (78 - 69) = 9 (57, 48): (57 - 48) = 9 Similarly, (94, 85): (94 - 85) = 9

Sol.62.(a)

Logic : (1st number × 4) - 4 = 2nd number 12 : 44 \Rightarrow (12 × 4) - 4 \Rightarrow 48 - 4 = 44 8 : 28 \Rightarrow (8 × 4) - 4 \Rightarrow 32 - 4 = 28 Similarly, 9 : 32 \Rightarrow (9 × 4) - 4 \Rightarrow 36 - 4 = 32



Sol.64.(a)

Logic: $(1st num)^2 - 5 = 2nd num$ $(8:59) \rightarrow (8)^2 - 5 \Rightarrow 64 - 5 = 59$ $(9:76) \rightarrow (9)^2 - 5 \Rightarrow 81 - 5 = 76$ Similarly, $(25:?) \rightarrow (25)^2 - 5 \Rightarrow 625 - 5 = 620$

Sol.66.(b)

Logic: - (1st num) × 11 = 2nd num (8, 88) \rightarrow 8 × 11 = 88 (11, 121) \rightarrow 11 × 11 = 121 Similarly, (15, ?) \rightarrow 15 × 11 = 165

Sol.67.(c) As lava emits from volcanoes similarly steam emits from geysers.

Sol.68.(a)

Logic:- $(1st number)^2 - 3 = 2nd number$ (10, 97):- $(10)^2 - 3 = 97$ (12, 141):- $(12)^2 - 3 = 141$ Similarly, (14, ?):- $(14)^2 - 3 = 193$

Sol.69.(b) Logic :- (1st number × 5) - 1 = 2nd number (12, 59) :- (12 × 5) - 1 = 59 (17, 84) :- (17 × 5) -1 = 84 Similarly, (19, 94) :- (19 × 5) - 1 = 94

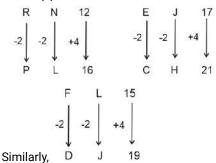
Sol.70.(a) As the feminine gender of Horse is Mare, similarly the feminine gender of Fox is Vixen.

Sol.71.(c) Logic: (1st number × 4) - 2 = 2nd number $(4:14) \rightarrow (4 \times 4) - 2 \Rightarrow 16 - 2 = 14$ $(7:26) \rightarrow (7 \times 4) - 2 \Rightarrow 28 - 2 = 26$ Similarly, $(9:?) \rightarrow (9 \times 4) - 2 \Rightarrow 36 - 2 = 34$

Sol.72.(b)

Logic: $(1st number)^3 - 1 = 2nd number$ $(2:7) \rightarrow (2)^3 - 1 \Rightarrow 8 - 1 = 7$ $(4:63) \rightarrow (4)^3 - 1 \Rightarrow 64 - 1 = 63$ Similarly, $(9:?) \rightarrow (9)^3 - 1 \Rightarrow 729 - 1 = 728$

Sol.73.(a)



Sol.74.(d) Logic :- (First number - second number) = 111 $(428, 317) \rightarrow (428 - 317) = 111 \\ (285, 174) \rightarrow (285 - 174) = 111 \\ Similarly, <math>(597, 486) \rightarrow (597 - 486) = 111$

23

Sol.75.(a) Logic :- (1st number + 3rd number) \times 2 = 2nd number (14, 42, 7) \rightarrow (14 + 7) \times 2 \Rightarrow (21) \times 2 = 42 (12, 34, 5) \rightarrow (12 + 5) \times 2 \Rightarrow (17) \times 2 = 34 Similarly, (43, 144, 29):- \rightarrow (43 + 29) \times 2 \Rightarrow (72) \times 2 = 144

Sol.76.(d) Logic: $(1st number)^2 + 1$ = 2nd number

$$(7:50) \rightarrow (7)^2 + 1 \Rightarrow 49 + 1 = 50$$

 $(15:226) \rightarrow (15)^2 + 1 \Rightarrow 225 + 1 = 226$
Similarly,

$$(17:290) \rightarrow (17)^2 + 1 \Rightarrow 289 + 1 = 290$$

Sol.77.(c)

Sol.78.(a)

Logic: $(1 \text{st number})^2 - 2 = 2 \text{nd number}$ $(3:7) \rightarrow (3)^2 - 2 \Rightarrow 9 - 2 = 7$ $(5:23) \rightarrow (5)^2 - 2 \Rightarrow 25 - 2 = 23$ Similarly, $(6:34) \rightarrow (6)^2 - 2 \Rightarrow 36 - 2 = 34$

Sol.79.(a) Logic :- $(1st number \times 4) + 1$ = 2nd number

$$(14, 57)$$
: $(14 \times 4) + 1 \Rightarrow 56 + 1 = 57$
 $(22, 89)$: $(22 \times 4) + 1 \Rightarrow 88 + 1 = 89$
Similarly,

$$(52, ?)$$
:- $(52 \times 4) + 1 \Rightarrow 208 + 1 = 209$

Sol.80.(c)



Sol.81.(a) Logic: $-(1st number \times 3) + 5$ = 2nd number

$$(5, 20)$$
: $(5 \times 3) + 5 = 20$
 $(7, 26)$: $(7 \times 3) + 5 = 26$
Similarly, $(2, ?)$: $(2 \times 3) + 5 = 11$

Mirror / Water Image

BASICS OF MIRROR IMAGE-

The image that is formed in the mirror of an object is called the mirror image of the object. In this, the image of the object which is near the mirror is formed first in the mirror and the image which is away from the mirror is formed later in the mirror.

i.e -



English Alphabet in mirror image:

Letters	Mirror Image	Letters	Mirror Image	Letters	Mirror
Α	Α	J	L	S	S
В	В	K	K	T	Т
C	0	L		U	U
D	D	M	M	V	V
E F	3	N	И	W	W
F	F	0	0	x	X
G	G	P	P	Y	Y
Н	Н	Q	Q	Z	Z
- 1	- 1	R	Я		

Numbers in mirror image:

Numbers	Mirror Image	Numbers	Mirror Image	Numbers	Mirror Image
1	1	4	4	7	7
2	2	5	5	8	8
3	3	6	9	9	9

Now, see the above table carefully and solve the questions:

BASICS OF WATER IMAGE-

A water image is the reflection of an object in water, and it is the inverted image of an object turned over on its side. Using a horizontal mirror at the bottom of a figure's water image creates a mirror image of that figure.

English Alphabet in water image:

Water Images of Numbers:

Direction:- [Q .1. - Q .27.] Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.

Questions:-

Q.1.



SSC MTS 01/09/2023 (1st Shift)

 $Mqa32S_{(d)}$ $Wqa8z2_{(a)}$ Quullet

Q.2.



SSC MTS 01/09/2023 (2nd Shift)

- $Gk27hV_{(d)}Gk27hA_{(e)}$
- $Gk27PA_{(b)}Bk72hA_{(c)}$

Q.3.



SSC MTS 01/09/2023 (3rd Shift)

 $3 ph7a2_{(d)} Eph72s_{(s)}$ $3 ph7a2_{(b)} Eph7a2_{(s)}$

Q.4.



SSC MTS 04/09/2023 (1st Shift)

0.5.



SSC MTS 04/09/2023 (2nd Shift)

- Rh D 9 u a (d) R d G 9 u a (a) Rh G 9 n a (b) A d G 9 u a (c)



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SSC MTS 04/09/2023 (3rd Shift)

- $MqaE7lp_{(d)} Mda3 \lambda gf_{(s)}$ $Mda37gf_{(b)} Mda37gf_{(s)}$

0.19.

Q.20.

Ld26Am EN

Lf5N2a2 E.

Jeq72m

KtP47F

Trw2g5s $\{ N_i \}$

0.23.

Q.24.

Tdq62n

SSC MTS 12/09/2023 (1st Shift)

SSC MTS 12/09/2023 (2nd Shift)

SSC MTS 12/09/2023 (3rd Shift)

SSC MTS 13/09/2023 (1st Shift)

SSC MTS 13/09/2023 (2nd Shift)

SSC MTS 13/09/2023 (3rd Shift)

 $Tdd62n_{(d)}$ $Tpb62n_{(e)}$

Tdq62u_(a) Ldq62n_(a)

 $KQ147F_{(d)}$ $XtP47F_{(e)}$

KtP4JE (b) KtP47F (c)

Tr M 2 8 5 8 (9) Tr M 2 8 5 8 (7)

Tr2wg5s_(b) Trw2g5s_(o)

 $Jeq72m_{(d)} Jed72m_{(e)}$ $J_{\text{eq}} = 120 \text{ J}_{\text{(a)}} \text{ Leq}$

Jf5N2Sp_(d) Lf6NSq2_(a)

L₁5N₅q₂ (b) L₁5N₂q₂ (c)

Jd26Am_(d) Ld26Am_(e)

LSb6Am (b) Ld26Vm (c)

0.7.



SSC MTS 05/09/2023 (1st Shift)

- Lew273a (d) Lew273a (e)
- Lew5\3a _(b) Jew273s _(a)

Q.8.



SSC MTS 05/09/2023 (2nd Shift)

- 7dBmPe3 (d) 7dBwPe3 (e)
- 298 January 10 January 20 January



SSC MTS 05/09/2023 (3rd Shift)

- FdEz9sm_(d) FdEz9wa_(s)
- $Fd3z9ma_{(b)} Eb3z9ma_{(c)}$

Q.10.



SSC MTS 06/09/2023 (1st Shift)

- (a) 8 L G e 3 H
- Fe3b7g_(b) Fe3P7g_(c)

0.11.



SSC MTS 06/09/2023 (2nd Shift)

- Dr37m2s_(d) Gr37m2s_(e)
- GL37m25 (b) Gr37m25 (c)

Q.12.

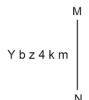


SSC MTS 11/09/2023 (3rd Shift)

- Y95g7dp_(d) Ye2g\dp_(a)
- Ye57gdb (b) Ye5g7dp (c)

- SSC MTS 06/09/2023 (3rd Shift)
- Fdw6jm2_(d) 7dw6j2m_(a)
- Fb w 6 j 2 m (b) Fd w 6 j 2 m (c)

Q.13.



SSC MTS 08/09/2023 (1st Shift)

- $Y dz 4 Mm_{(d)} \lambda pz 4 Mm_{(e)}$
- Ybz4km (b) Ybz4km (c)
- Q.14.





SSC MTS 08/09/2023 (2nd Shift)

QsM127P_(d) QaW157P_(e)

- QaMr57P_(b) QaMr2\P_(c)

0.15.

HkL25B [N

SSC MTS 08/09/2023 (3rd Shift)

- HKL25B (d) HKSJ5B (a)
- HkL287 (b) HyL288 (c)

Kd27z4r

SSC MTS 11/09/2023 (1st Shift)

- Kd27z4r(а) Kb2\z4r(ь)
- Kd27z41(b) Xd27z4r(c)

Q.17.

Md5pa2[N SSC MTS 11/09/2023 (2nd Shift)

- $Md5pa2_{(d)}Mdq25a_{(e)}$
- Wq5p95 (b) Md2ba2 (c)

Kg4b2a

SSC MTS 14/09/2023 (1st Shift)

K g 4 b 2 a (b) K g 4 b S a (c)

Q.26.

Rkh29a

SSC MTS 14/09/2023 (2nd Shift)

Rkh29a (d) Rkh2ea (e) Kky569 (b) Rhh2se (c)

Q.27.

Rp7F2ba

(flid br) $(202^{0.4} + 20 = 20)$ (g) $(300^{0.4} + 20 = 20)$ (h) $(300^{0.4} + 20 = 20)$

Rb7F2ba_(b) Rp7E5ba_(a)

Answer Key:-

1.(d)	2.(a)	3.(c)	4.(c)
5.(d)	6.(d)	7.(b)	8.(c)
9.(d)	10.(c)	11.(c)	12.(c)
13.(d)	14.(d)	15.(b)	16.(b)
17.(b)	18.(c)	19.(a)	20.(c)
21.(b)	22.(c)	23.(c)	24.(b)
25.(d)	26.(b)	27.(b)	

Solutions:-

Sol.1.(d)

WPa3z5

Sol.2.(a)

Gk 2 7 hA

Sol.3.(c)

Eph7a2

Sol.4.(c)

yR46hKa

Sol.5.(d)

RhG9na

Sol.6.(d)

Mda37gf

Sol.7.(b)

1 ew273a

Sol.8.(c)

7dBwPe3

Sol.9.(d)

Fd3z9ma

Sol.10.(c)

Fe3P78

Sol.11.(c)

Gr37m2s

Sol.12.(c)

Fdw6j2m

Sol.13.(d)

Ybz4km

Sol.14.(d)

QaMr57P

Sol.15.(b)

HkL25B

Sol.16.(b)

Kd27z4r

Sol.17.(b)

Md5pa2

Sol.18.(c)

Ye5g7dp

Sol.19.(a)

Ld26Am

Sol.20.(c)

Lf5N2q2

Sol.21.(b)

Jeq72m

Sol.22.(c)

KtP47F

Sol.23.(c)

Trw2g5s

Sol.24.(b)

Tdq62n

Sol.25.(d)

Kg4b2a

Sol.26.(b)

Rkh29a

Sol.27.(b)

Rp7F2ba

Word Arrangement

Introduction of WORD ARRANGEMENT -

In this type of questions, certain inter-related words and numbers are given, followed by various sequences of the numbers denoting them, as alternatives. The student is required to arrange these words in logical sequences based on a common property and then choose the correctly graded sequences from the given alternatives.

Example - 1

Arrange the following words in a logical and meaningful order.

- 1. Family 2. Community 3. Member
- 4. Locality 5. Country

Solution: Clearly, a member is part of a family, which in turn is a part of community. The community lives in a locality which lies within a Country.

Thus, the correct order is 3.1.2.4.5

Example - 2

Arrange the following words in a logical and meaningful order.

- 1. Phrase
- Letter
- 3. Word
- 4. Sentence

Solution:- Clearly, A group of **letters** makes a **word**. A group of **words** make a **phrase**. A group of **phrases** makes a **sentence**.

Thus, the correct order is 2,3,1,4

Example - 3

Arrange the given words according to dictionary order.

- 1. Deceive 2. Deceptive 3. Decapitate
- 4. Decency 5. Decamp

Solution: Correct order is 5 - 3 - 1 - 4 - 2

Decamp → Decapitate → Deceive →

Decency → Deceptive.

Questions:-

Q.1. The position of how many letters will remain unchanged if each of the letter in the word 'FINGER' is arranged in alphabetical order?

SSC MTS 01/09/2023 (1st Shift)

(a) Two (b) One (c) Three (d) Four

Q.2. The position of how many letters will remain unchanged if each of the letter in the word 'BACHELOR' is arranged in alphabetical order?

SSC MTS 04/09/2023 (1st Shift)

- (a) One (b) Five (c) Four (d) Two
- Q.3. The position of how many letters

will remain unchanged if each of the letter in the word 'CATEGORY' is arranged in alphabetical order?

SSC MTS 04/09/2023 (2nd Shift)

- (a) Three (b) Two (c) None (d) One
- Q.4. The position of how many letters will remain unchanged if each of the letter in the word 'TIMES' is arranged in alphabetical order?

SSC MTS 05/09/2023 (3rd Shift)

- (a) Two (b) None (c) Four (d) One
- Q.5. The position of how many letters will remain unchanged if each of the letter in the word 'GRAPES' is arranged in alphabetical order?

SSC MTS 06/09/2023 (2nd Shift)

- (a) One (b) None (c) Four (d) Two
- Q.6. The position of how many letters will remain unchanged if each of the letter in the word 'POCKET' is arranged in alphabetical order?

SSC MTS 08/09/2023 (1st Shift)

- (a) Two (b) Five (c) Three (d) One
- Q.7. The position of how many letters will remain unchanged if each of the letter in the word 'DURATION' is arranged in alphabetical order?

SSC MTS 08/09/2023 (2nd Shift)

- (a) Four (b) None (c) Five (d) One
- Q.8. The position of how many letters will remain unchanged if each of the letter in the word 'ABSOLUTE' is arranged in alphabetical order?

SSC MTS 08/09/2023 (3rd Shift)

- (a) Five (b) Two (c) Three (d) Four
- Q.9. The position of how many letters will remain unchanged if each of the letter in the word "CHILDREN" is arranged in alphabetical order?

SSC MTS 11/09/2023 (1st Shift)

- (a) One (b) Four (c) Three (d) Two
- Q.10. The position of how many letters will remain unchanged if each of the letters in the word COMPUTER is arranged in alphabetical order? SSC MTS 12/09/2023 (3rd Shift)
- (a) two (b) none (c) one (d) three

Answer Key :-

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

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Solutions:-

Sol.1.(b) The given word: FINGER

The new word formed after arranging the letters in alphabetical order: EFGINR Hence the position of one letter (R) will remain unchanged.

Sol.2.(c) The given word: BACHELOR The new word formed after arranging the letters in alphabetical order: ABCEHLOR Hence the position of four letters (C, L, O and R) will remain unchanged.

Sol.3.(d) The given word: CATEGORY The new word formed after arranging the letters in alphabetical order: ACEGORTY Hence the position of One letter 'Y' will remain unchanged.

Sol.4.(a) Given :- TIMES

After arranging the letters alphabetically

we get : EIMST

The position of two letters will remain unchanged (I, M)

Sol.5.(d) Given :- GRAPES

After arranging the letters in alphabetical order we get,

AEGPRS

The position of two letters remains unchanged.

Sol.6.(d) Given :- POCKET

After arranging the letters alphabetically we get,

CEKOP**T**

The position of only one letter remains unchanged.

Sol.7.(b) The given word: DURATION The new word formed after arranging the letters in alphabetical order: ADINORTU Hence the position of none of the letters are the same.

Sol.8.(c) Given :- ABSOLUTE

After arranging the letters in alphabetically we get,

ABELOSTU

The position of three letters remains unchanged.

Sol.9.(a) The given word: CHILDREN The new word formed after arranging the letters in alphabetical order: CDEHILNR Hence the position of one letter (C) will remain unchanged.

Sol.10.(a) Given :- COMPUTER

After arranging the letters alphabetically we get

CEMOPRTU

The position of two letters remains unchanged.

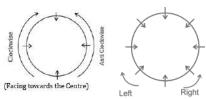
Sitting Arrangement

Sitting arrangement - To solve this, some conditions are given based on which the questions have to be solved. In this, questions are asked mainly related to seating of people or arrangement of items. To solve such questions, it is necessary to have knowledge of the left and right of a person and an item. If many people are sitting on a circular path and all of them are sitting facing the center, then the sequence of rotation to their left is clockwise and the order of rotation to the right is anti-clockwise.

Type - 1

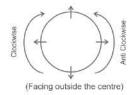
Circular Arrangement :-

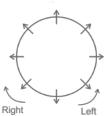
(i) When facing toward Centre \rightarrow



If they are facing towards Inside then their left hand will be in the clockwise direction and the right-hand side will be in the anticlockwise direction..

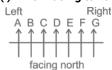
(ii) When facing toward Outside \rightarrow





If they are facing outside from the center then their left hand will be in the anticlockwise direction and the right-hand side will be in the clockwise direction.

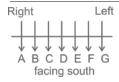
Type - 2 **Linear Arrangement:-**(i) When facing toward North →



In the case of facing north, simply the left hand becomes the left side and the right hand becomes the right side.

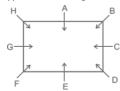
(ii) When facing toward South →

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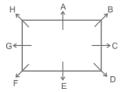
In case of facing south, then the left hand becomes the right side and the right hand becomes the left side.

Rectangle / Square Arrangement :-(i) When facing toward Inside →



In case of all people facing toward the center then A is the Left from H and Right from B and similarly E is the left from D and right from the F.

(ii) When facing toward Outside \rightarrow



In the case of all people facing outside from center then A is to the right from H and left from B and similarly E is to the right from D and left from F.

Questions:-

Q.1. Six people, P, Q, R, S, T and U are sitting in a straight line, facing north. U sits fourth to the right of R. R is not sitting at the extreme end of the line. T is the immediate neighbour of U and S. Q sits third to the left of S. Who is sitting immediately to the right of R? SSC MTS 01/09/2023 (1st Shift)

(a) S (b) T (c) Q (d) P

Q.2. F, G, H, I, J, K, L and M are sitting around a square table facing the centre. Some of them are sitting at the corners of the table while some are sitting at the exact centre of the sides. G, I, H and J are not sitting in any of the corners. G is sitting to the immediate left of K and immediate right of L. I is sitting to the immediate right of K. F is sitting to the immediate right of I and immediate left of H. J is sitting to the immediate right of M and immediate left of L. Who is sitting to the immediate left of M?

SSC MTS 01/09/2023 (2nd Shift)

(a) I (b) H (c) J (d) G

Q.3. Seven people, S, T, U, V, W, X and Y are sitting in a straight line, facing north. Only two people sit to the right of W. Only

three people sit between S and W. U is the immediate neighbour of T and X. X is not the immediate neighbour of W. V sits third to the right of T.

Who is sitting between W and V? SSC MTS 01/09/2023 (3rd Shift) (d) X

(a) T (b) Y (c) U

Q.4. Six people, Karan, Dilip, Rahul, Prabhat, Alok and Sandeep are sitting in a straight line, facing north. Karan sits 2nd from the left end. Dilip sits 3rd to the right of Karan. Rahul sits 2nd to the left of Dilip. Prabhat sits 3rd to the right of Rahul. Sandeep sits 2nd to the left of Prabhat. Who sits 2nd to the right of Karan?

SSC MTS 04/09/2023 (1st Shift)

(a) Rahul

(b) Sandeep

(c) Prabhat

(d) Alok

Q.5. J, K, P, Q, R and M are sitting around a circular table facing the centre. J is sitting to the immediate left of M. R is sitting 2nd to the left of J. K is sitting 3rd to the right of J. P sits to the immediate right of R. Who sits 2nd to the left of K? SSC MTS 04/09/2023 (2nd Shift)

(c) M (a) R (b) Q

Q.6. Q, R, S, T, U, V, W and X are sitting around a square table facing the center of the table. Some of them are sitting at the corners while some are sitting at the exact center of the sides. X sits second to the left of W. W sits in one of the corners. V is the immediate neighbour of T and U. R sits third to the left of T. U does not sit in one of the corners. U is neither the neighbour of X nor W. Q is not the neighbour of X.

How many people sit between S and V, when counted from the left of S? SSC MTS 04/09/2023 (3rd Shift)

(a) One (b) Three (c) Four (d) Two

Q.7. N, O, P, Q, R, S, T and U are sitting around a square table facing the center of the table. Some of them are sitting at the corners while some are sitting at the exact center of the sides. N sits third to the left of U. U sits in any of the corners. O sits third to the right of T. T sits in one of the corners. Q is the immediate neighbour of P and U. P is not the neighbour of N. R is not T's neighbour. How many people sit between P and R. when counted from the right of P? SSC MTS 05/09/2023 (1st Shift) (a) Two (b) Four (c) One (d) Three

Q.8. Manu, Ram, Gaurav, Shivam, Umesh

and Veer are sitting around a circular table facing the centre. Manu is sitting 2nd to the left of Ram. Gaurav is sitting

3rd to the right of Ram. Shivam is sitting 3rd to the left of Manu. Umesh is sitting 2nd to the left of Shivam.

Who is sitting 2nd to the left of Manu? SSC MTS 05/09/2023 (2nd Shift)

(a) Gaurav (b) Ram (c) Veer (d) Umesh

Q.9. Six people, C, D, E, F, G and H are sitting in a straight line, facing north. Only three people sit to the right of G. Only Two people sit between G and E. C sits to the immediate right of F and to the immediate left of G. H is not the immediate neighbor of E.

Who are sitting between G and E? SSC MTS 05/09/2023 (3rd Shift)

(a) F and C

(b) C and D

(c) H and E

(d) H and D

Q.10. E, F, G, H, I and J are sitting around a circular table facing the center. J sits immediate left of I. G sits second to the right of I. E sits second to the right of G. H sits second to the left of F. Who sits third to the right of E?

SSC MTS 06/09/2023 (1st Shift)

(b) H

(c) I

Q.11. Seven people, C, F, D, K, O, L, and V are sitting in a straight line, facing south. V sits second to the right of F. Only three people sit to the right of O. K is an immediate neighbour of O and D. Only three people sit between L and V. F is not an immediate neighbour of L.

Who sits to the extreme left of the line? SSC MTS 06/09/2023 (2nd Shift)

(a) C

(b) F

(c) V

(d) D

Q.12. R, S, T, U, V, W, X and Y are sitting around a square table facing the center of the table. Some of them are sitting at the corners while some are sitting at the exact center of the sides. R is the immediate neighbour of X and Y. X sits in any of the corners. W sits third to the right of T. T does not sit in any of the corners. U is the immediate neighbour of Y and W.V is not the neighbour of W. How many people sit between W and T, when counted from the right of W? SSC MTS 06/09/2023 (3rd Shift)

Q.13. Seven people, U, M, K, G, B, R and D are sitting in a straight line, facing south. Only two people sit to the left of B. M sits third to the right of G. U is the immediate neighbour of M and B. D sits to the immediate left of K. Total how many people sit between D and G? SSC MTS 08/09/2023 (1st Shift)

(a) Four (b) Five (c) Two (d) Three

(a) Two (b) Three (c) One (d) Four

and Girish are sitting around a circular table facing the centre. Girish sits 2nd to the right of Deepa. Farheen sits to the immediate left of Girish. Bela sits 2nd to the right of Farheen. Heera is an immediate neighbour of Deepa.

Who sits to the immediate right of Bela? SSC MTS 08/09/2023 (2nd Shift)

(a) Girish (b) Deepa (c) Heera (d) Abeer

Q.15. Seven people, B, N, M, O, P, Y and S are sitting in a straight line, facing south. Only two people sit between P and S. N is the immediate neighbour of S and M. Only one person sits to the right of P. N sits second to the left of O. Y is an immediate neighbour of P.

Total how many people sit between P and M?

SSC MTS 08/09/2023 (3rd Shift)

(a) Two (b) Four (c) Three (d) One

Q.16. Six people, Deepak. Gauri, Babita. Ira, Farheen and Hema are sitting in a straight line, facing north Deepak sits 2nd from the left end. Gauri sits 2nd to the right of Deepak. Ira sits 2nd to the right of Gauri. Farheen sits 3rd to the left of Ira. Babita sits 2nd to the left of Farheen.

Who sits 3rd to the right of Deepak? SSC MTS 11/09/2023 (1st Shift)

(a) Farheen (b) Hema (c) Babita (d) Ira

- Q.17. Shagun, Pragya, Yati, Lovey, Savi and Frooti are sitting around a circular table facing the centre. Shagun sits 2nd to the left of Pragya. Yati sits 2nd to the left of Shagun. Lovey sits 3rd to the left of Yati .Savi sits 2nd to the left of Lovey. Who sits 3rd to the left of Shagun? SSC MTS 11/09/2023 (2nd Shift) (a) Pragya (b) Lovey (c) Savi (d) Frooti
- Q.18. Seven people, V, F, D, S, R, C, and P are sitting in a straight line, facing south. Only two people sit between V and P. Only two people sit to the right of V. D sits third to the left of S. P is an immediate neighbour of D and F. C is an immediate neighbour of S.

Total how many people sit between S and P?

SSC MTS 11/09/2023 (3rd Shift)

(a) Four (b) One (c) Three (d) Two

Q.19. Six people, Vijay, Harsh, Golu, Satish, Karan and Awadhi are sitting in a straight line, facing north. Vijay sits 3rd from the right end. Harsh sits 3rd to the left of Vijay. Satish is an immediate neighbour of Harsh. Golu sits 3rd to the right of Satish. Awadhi is an immediate neighbour of Golu.

Who sits 2nd to the right of Vijay? SSC MTS 12/09/2023 (1st Shift)

(a) Golu (b) Awadhi (c) Karan (d) Satish

Q.20. Ranjan, Pari, Yash, Charu, Reetu and Gunjan are sitting around a circular table facing the centre. Ranjan sits 3rd to the left of Pari. Yash sits 2nd to the left of Ranjan. Charu sits 2nd to the right of Ranjan. Reetu is an immediate neighbour of Charu.

Who sits 2nd to the right of Pari? SSC MTS 12/09/2023 (2nd Shift)

(a) Yash (b) Reetu (c) Gunjan (d) Charu

Q.21. A, B, C, D, E, F, G and H are sitting around a square table facing the center of the table. Some of them are sitting at the corners while some are sitting at the exact center of the sides. H sits third to the left of B. H does not sit in any of the corners. C sits third to the right of F. C sits in one of the corners. H is the immediate neighbour of D and E. A is not the neighbour of B. E sits immediate next

How many people sit between A and H, when counted from the left of A? SSC MTS 12/09/2023 (3rd Shift)

(a) Three (b) Six (c) Four (d) Five

Q.22. D. E. F. G. H. I. J and K are sitting around a square table facing the center of the table. Some of them are sitting at the corners while some are sitting at the exact center of the sides. K sits third to the right of I. K sits at one of the corners. E sits second to the left of G. G sits at any of the corners. E is an immediate neighbour of I and D. F sits third to the right of J. H is the immediate neighbour of

How many people sit between I and F, when counted from the left of I? SSC MTS 13/09/2023 (1st Shift)

(a) Two (b) Four (c) One (d) Three

Q.23. K, L, M, N, O, P, Q and R are sitting around a square table facing the center of the table. Some of them are sitting at the corners while some are sitting at the exact center of the sides. R sits second to the right of Q . Q sits in one of the corners. M sits third to the left of N. M does not sit in any of the corners. O is the immediate neighbour of Q and R. K is not the neighbor of N. L sits third to the left of R.

How many people sit between K and Q, when counted from the right of K? SSC MTS 13/09/2023 (2nd Shift) (a) Two (b) One (c) Three (d) Four

Q.24. Seven people, W, D, J, S, H, G and Y are sitting in a straight line, facing south.

G sits second to the left of S. G is the immediate neighbour of D and H. Y sits third to the right of D. Only two people sit to the right of W. Who sits at the extreme right end of the line?

SSC MTS 13/09/2023 (3rd Shift)

(a) W (b) Y (c) J (d) G

Q.25. Kiran, Pihu, Siya, Leens, Reena and Jiya are sitting around a circular table facing the centre. Kiran sits 3rd to the right of pihu. Siya sits 2nd to the right of Kiran. Leena sits 3rd to the left of Siya, Reena is an immediate neighbour of Leena. Who sits to the immediate left of Jiya?

SSC MTS 14/09/2023 (1st Shift) (a) Leena (b) Siya (c) Pihu (d) Kiran

Q.26. Six people, Kajal, Neetu, Lovey, Omar, Meenu and Jay are sitting in a straight line, facing north. Lovey sits 3rd from the left end. Neetu sits 2nd to the right of Lovey. Omar sits to the immediate right of Neetu. Meenu sits 2nd to the left of Omar. Kajal sits 2nd to the left of Meenu. Who sits to the immediate left of Lovey?

SSC MTS 14/09/2023 (2nd Shift) (a) Kajal (b) Meenu (c) Omar (d) Jay

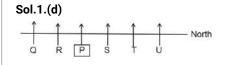
Q.27. Meena, Saroj, Goldy, Priti. Poonam and Baby are sitting around a circular table facing the centre. Meena sits to the immediate left of Saroj. Goldy sits 3rd to the right of Saroj. Priti sits 2nd to the left of Goldy. Poonam sits to the immediate right of Goldy.

Who sits 2nd to the left of Baby? SSC MTS 14/09/2023 (3rd Shift) (a) Saroj (b) Goldy (c) Priti (d) Poonam

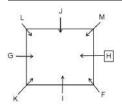
Answer Key :-

1.(d)	2.(b)	3.(b)	4.(b)
5.(c)	6.(d)	7.(d)	8.(c)
9.(d)	10.(b)	11.(b)	12.(a)
13.(b)	14.(d)	15.(b)	16.(b)
17.(d)	18.(c)	19.(b)	20.(c)
21.(d)	22.(a)	23.(c)	24.(c)
25.(d)	26.(a)	27.(a)	

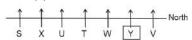
Solutions:-



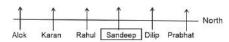
Sol.2.(b)



Sol.3.(b)



Sol.4.(b)



Sol.5.(c)

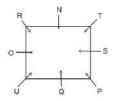


Sol.6.(d)



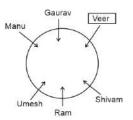
Two people sit between S and V when counted from the left of S.

Sol.7.(d)

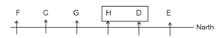


Three people sit between P and R when counted from the right of P.

Sol.8.(c)

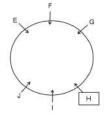


Sol.9.(d)

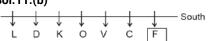


H and D are sitting between G and E.

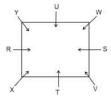
Sol.10.(b)





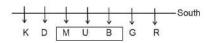


Sol.12.(a)



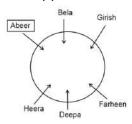
When counted from the right of W four people sit between W and T.

Sol.13.(b)

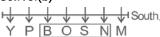


Three people sit between D and G.

Sol.14.(d)



Sol.15.(b)



Four people sit between P and M

Sol.16.(b)

Babita Deepak Farheen Gauri Hema Ira

Sol.17.(d)



Sol.18.(c)

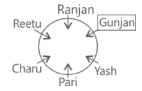


Three people sit between S and P.

Sol.19.(b



Sol.20.(c)



Sol.21.(d)



Five people sit between A and H when counted from left of A.

Sol.22.(a)



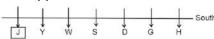
When counted from the left of I, two people sit between I and F.

Sol.23.(c)

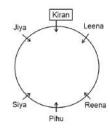


Three people sit between K and Q when counted from the right of K.

Sol.24.(c)



Sol.25.(d)



Sol.26.(a)



Sol.27.(a)

