

EXERCISE 1A

For SSC GD & MTS Exams

Direction (1 to 11): Which number will replace the question mark (?) in the following series?

- 65, 67, 69, 81, 93, ?
(a) 137 (b) 117 (c) 113 (d) 123
MTS 14/08/2019 (Shift-1)
 - 28, 32, 48, 84, ?
(a) 150 (b) 152 (c) 154 (d) 148
MTS 13/08/2019 (Shift-3)
 - 105, 106, 114, 141, ?
(a) 207 (b) 208 (c) 205 (d) 206
MTS 13/08/2019 (Shift-2)
 - 15, 17, 20, 25, 32, 43, ?
(a) 56 (b) 55 (c) 57 (d) 54
MTS 13/08/2019 (Shift-2)
 - 10, 17, 26, 37, _____
(a) 49 (b) 50 (c) 54 (d) 52
MTS 13/08/2019 (Shift-1)
 - 423, 407, 439, 391, 455, ?
(a) 375 (b) 420 (c) 365 (d) 360
MTS 13/08/2019 (Shift-1)
 - 36, 73, 147, 295, ?
(a) 621 (b) 591 (c) 581 (d) 691
MTS 09/08/2019 (Shift-3)
 - 1107, 1127, 1167, 1227, 1307, ?
(a) 1417 (b) 1427 (c) 1397 (d) 1407
MTS 9/08/2019 (Shift-3)
 - 3, 3, 6, 24, 192, ?
(a) 3072 (b) 1536 (c) 4992 (d) 2688
MTS 09/08/2019 (Shift-2)
 - 39, 19, 58, 77, 135, ?
(a) 202 (b) 224 (c) 196 (d) 212
MTS 09/08/2019 (Shift-1)
 - 461, 481, 502, 524, 547, ?
(a) 573 (b) 585 (c) 571 (d) 581
MTS 09/08/2019 (Shift-1)
- Select the number that can replace the question mark (?) in the following series.
- 11, 14, 31, 14, 16, 34, 17, 18, 37, ?, 20, ?
(a) 21, 41 (b) 20, 41 (c) 21, 40 (d) 20, 40
MTS 09/08/2019 (Shift-2)

Direction (13 to 19): Which of the following letter clusters will replace the question mark (?) to complete the given series?

- KUCJ, NRFG, QOID, ?
(a) ULLA (b) TKLB (c) TLLA (d) ULKA
MTS 14/08/2019 (Shift-1)
- QKR, UOV, YSZ, CWD, ?
(a) GAH (b) FZG (c) GAI (d) FBH
MTS 13/08/2019 (Shift-3)
- PTX, AEI, LPT, ?
(a) XAE (b) WZE (c) XAD (d) WAE
MTS 13/08/2019 (Shift-2)
- MONG, RUUL, WABT, BGIB, ?
(a) HNQJ (b) HNPS (c) GMPJ (d) GMQJ
MTS 09/08/2019 (Shift-3)
- ROB, URE, XUH, ?, DAN
(a) BYL (b) AYK (c) AXK (d) BXL
MTS 09/08/2019 (Shift-2)
- AMD, CLF, EKH, ?, IIL
(a) GJL (b) HJJ (c) HJK (d) GJJ
MTS 08/08/2019 (Shift-1)
- POND, UVSK, ZCXR, EJCY, ?
(a) JQHF (b) KQHF (c) JQHE (d) KQHE
MTS 08/08/2019 (Shift-2)

Direction (20 to 22): Select the letter-pair that can replace the question mark (?) in the following series:

- RJ, XP, DV, JB, ?
(a) QH (b) PI (c) QJ (d) PH
MTS 07/08/2019 (Shift-3)
- RD, XJ, DP, JV, ?
(a) QC (b) PB (c) PC (d) QB
MTS 08/08/2019 (Shift-3)
- JL, GJ, DH, AF, ?
(a) YD (b) XC (c) YC (d) XD
MTS 09/08/2019 (Shift-1)

Direction (23 to 25): One term in the given number series is wrong. Find the wrong term:

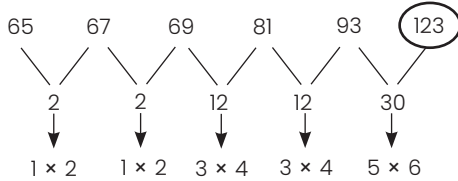
- 120, 143, 168, 196, 224
(a) 224 (b) 196 (c) 168 (d) 120
MTS 14/08/2019 (Shift-1)
- 15, 17, 22, 32, 49, 76
(a) 49 (b) 32 (c) 22 (d) 76
MTS 14/08/2019 (Shift-3)
- 34, 32, 35, 33, 36, 37
(a) 33 (b) 37 (c) 32 (d) 34
MTS 16/08/2019 (Shift-1)
- Select the option that is related to the third term in the same way as the second term is related to the first term.
CINQ : EKPS :: FRGS : ?
(a) HTIU (b) HITU (c) ITJU (d) HTUI
MTS 19/08/2019 (Shift-1)
- Select the term that will come next in the following series.
aaCee, ggIkk, mmOqq, _____
(a) ssTww (b) ssUww (c) rrTww (d) sSuww
MTS 21/08/2019 (Shift-1)
- BDf, Glk, LNp, _____
(a) QTu (b) QSU (c) QSu (d) QTV
MTS 20/08/2019 (Shift-1)

Direction (29 to 30): In the following number series two numbers have been put within brackets. Study the series carefully and select alternatives with respect to the series.

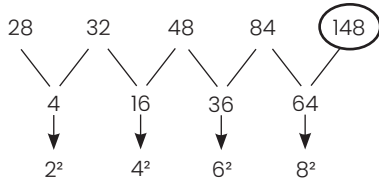
- 1, 9, 25, (36), 81, 121, (169), 225
(a) The first bracketed number (from the left) is correct and the second incorrect.
(b) Both the bracketed numbers are incorrect.
(c) The first bracketed number (from the left) is incorrect and the second is correct.
(d) Both the bracketed numbers are correct.
MTS 20/08/2019 (Shift-1)
- 5, 11, 18, (25), 35, (45), 56
(a) The first bracketed number (from the left) is correct and the second incorrect.
(b) Both the bracketed numbers are incorrect.
(c) The first bracketed number (from the left) is incorrect and the second is correct.
(d) Both the bracketed numbers are correct.
MTS 21/08/2019 (Shift-1)

SOLUTIONS

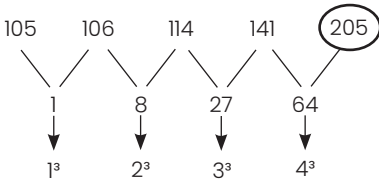
1. (d) The logic here



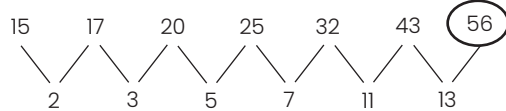
2. (d) The logic here



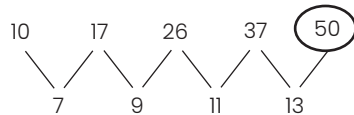
3. (c) The logic here



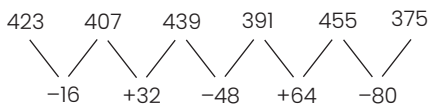
4. (a) The pattern is



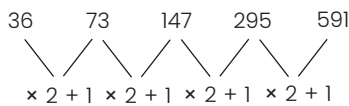
5. (b) The pattern follows here



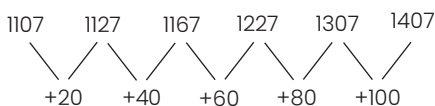
6. (a) The pattern is



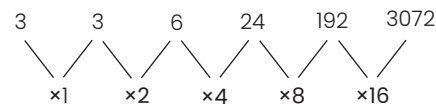
7. (a) The logic here



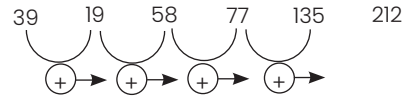
8. (d) The logic here



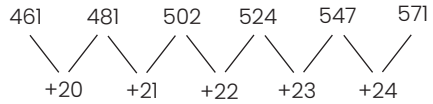
9. (a) The pattern is



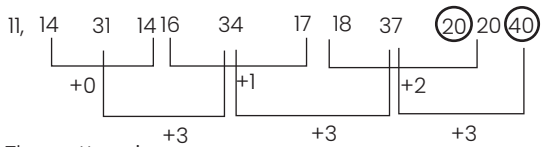
10. (d) The pattern is



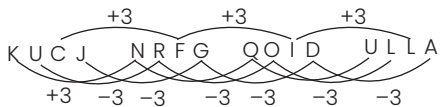
11. (c) The pattern is



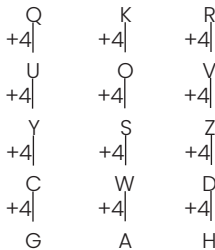
12. (d) The pattern is



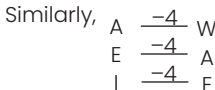
13. (a) The pattern is



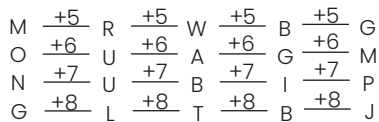
14. (a) The pattern is



15. (d) The pattern is



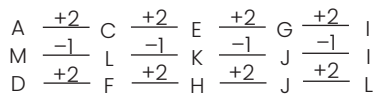
16. (c) The logic here



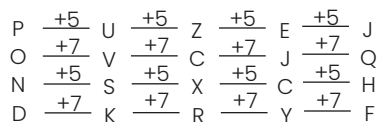
17. (c) The pattern is



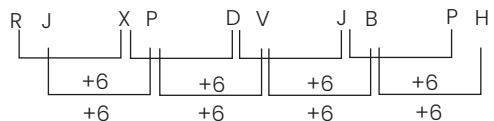
18. (c) The pattern is



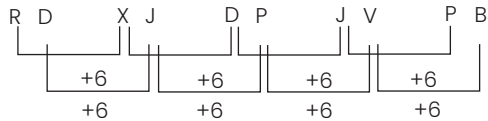
19. (a) The pattern is



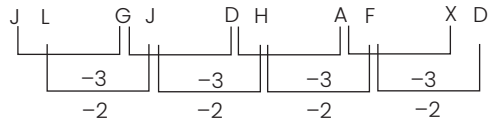
20. (d) The logic here



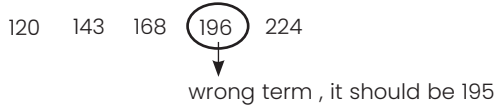
21. (b) The pattern is



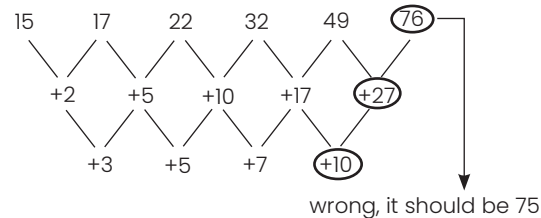
22. (d) The logic is



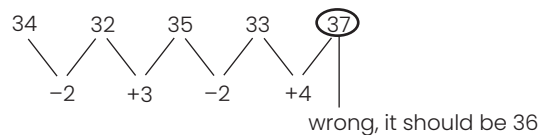
23. (b) The logic here



24. (d) The pattern is



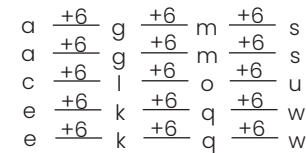
25. (b) The pattern is



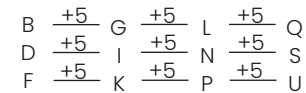
26. (a) The pattern is



27. (b) The logic here



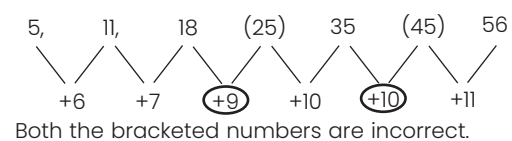
28. (c) The logic is



29. (c) In given question

1, 9, 25, (36), 81, 121, (169), 225
The first bracketed number (From the left) is in correct and the second is correct.

30. (b) In given question



EXERCISE 1B

For SSC CHSL Exam

Direction (1 to 10): Which number will replace the question mark (?) in the following series?

- 5, 8, 20, 34, 76, 142, ?
(a) 284 (b) 302 (c) 296 (d) 272
CHSL 01/07/19 (Shift-3)
- 5, 9, 18, 43, 92, 213, 382, ?
(a) 328 (b) 617 (c) 382 (d) 671
CHSL 02/07/2019 (Shift-1)
- 4, 10, 27, 140, ?
(a) 379 (b) 973 (c) 937 (d) 397
CHSL 02/07/2019 (Shift-2)
- 3, 27, 243, 2187, ?
(a) 27139 (b) 13561 (c) 21377 (d) 19683
CHSL 02/07/2019 (Shift-2)
- 2, 4, 16, 52, 132, 282, ?
(a) 512 (b) 527 (c) 534 (d) 572
CHSL 02/07/2019 (Shift-2)
- 89, 90, 82, 109, 45, ?
(a) -80 (b) 125 (c) 170 (d) 109
CHSL 02/07/2019 (Shift-3)
- 3, 14, 29, 38, 51, 58, 69, ?
(a) 74 (b) 37 (c) 73 (d) 47
CHSL 03/07/2019 (Shift-1)
- 6, 24, 60, 120, ?
(a) 216 (b) 240 (c) 210 (d) 186
CHSL 03/07/2019 (Shift-2)
- 16, 30, 62, 122, 246, ?
(a) 490 (b) 488 (c) 492 (d) 494
CHSL 03/07/2019 (Shift-2)
- 15, 43, 83, 137, 207, ?
(a) 297 (b) 292 (c) 295 (d) 294
CHSL 04/07/2019 (Shift-1)

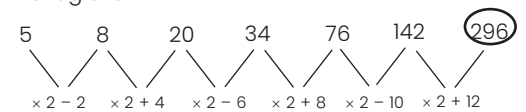
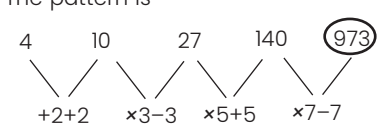
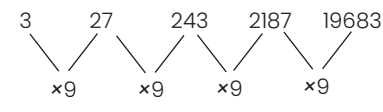
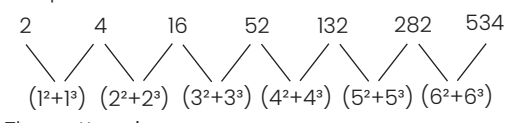
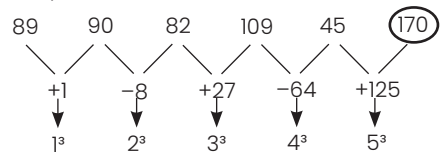
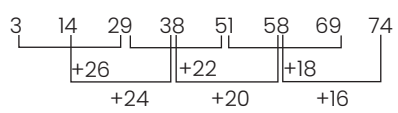
Direction (11 to 20): Select the combination of letters that when sequentially placed in the gaps of the given letters series will complete the series?

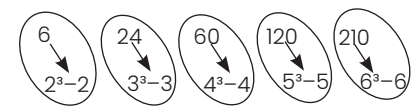
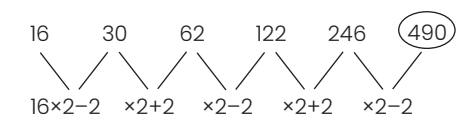
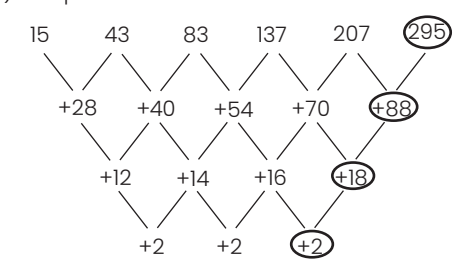
- abc_dab__d_b_cdab_c__
(a) cacacdc (b) acacdcc (c) ccaacdc (d) cccaccd
CHSL 01/07/19 (Shift-3)
- ab_ba_babd__acb_bdlba_b
(a) cdabc (b) dcbac (c) acbcd (d) dcabc
CHSL 02/07/2019 (Shift-1)
- ab_bcab_b_ab_bcab_bc
(a) dcdcd (b) ccdcc (c) ddcdd (d) dcddc
CHSL 02/07/2019 (Shift-2)
- ab_ba_db_bd_ac_ba_db_cdbabd__
(a) dcadbbab (b) dcabdbab (c) cdabdbba (d) dcdabbab
CHSL 02/07/2019 (Shift-3)
- a_b_aad_ca_dbc_adb_a
(a) dcabca (b) dbcaca (c) dcbaac (d) dcabac
CHSL 03/07/2019 (Shift-1)
- __ Q D P C __ Q C Q __ C P D Q C __ D P __ P D
(a) QCPCPPQC (b) PCPDDPDC (c) QCDDDPQD (d) QCPDDPQC
CHSL 03/07/2019 (Shift-2)

17. H _ _ E P C K _ _ C D E P _ K F H C _ E P C _ F
 (a) DCFHFDD (b) CDHHDCK
 (c) CDFHC DK (d) CCFHKDK
CHSL 03/07/2019 (Shift-3)
18. T C _ M B C _ N T _ Q M _ C D _ T _ Q M B _ D N
 (a) TDCBNCD (b) QDDBCCN
 (c) QDCBNCC (d) QBCDNCC
19. U _ _ R P K Q _ U K D _ P K _ R _ K D _ R _ K _ R
 (a) KQPRQUPQ (b) KDRRUURQ
 (c) KDRRQUPQ (d) KDRRQPPR
CHSL 04/07/2019 (Shift-2)
20. s _ _ m r q c t _ p d m _ q _ t s _ _ m r q c t
 (a) pdsrerd (b) pdsrerd (c) rdsrerd (d) pdsrbpd
CHSL 05/07/2019 (Shift-1)
- Direction (21 to 24):** Select the term that will come next in the following series.
21. JVD, MTF, PRH, ?, VNL
 (a) RPJ (b) SPJ (c) SQJ (d) RQJ
CHSL 03/07/2019 (Shift-2)
22. DOP, FPN, HQL, JRJ, ?
 (a) LSH (b) LSI (c) KSH (d) KTI
CHSL 03/07/2019 (Shift-3)

23. FBA, IGE, LLI, OQM, ?
 (a) RVQ (b) QVQ (c) RVP (d) RUP
CHSL 04/07/2019 (Shift-2)
24. LVD, OTF, RRR, ?, XNL
 (a) UQI (b) TPJ (c) TQJ (d) UPJ
CHSL 04/07/2019 (Shift-3)
- Direction (25 to 30):** Which letter-pair will replace the question mark (?) in the following series?
25. BE, DG, FK, HQ, ?
 (a) JY (b) JX (c) JS (d) YJ
CHSL 09/07/2019 (Shift-2)
26. OL, QO, _ , UU, WX
 (a) ST (b) RS (c) SU (d) SR
CHSL 09/07/2019 (Shift-3)
27. GD, IF, ? , SP, AX
 (a) MJ (b) NM (c) JK (d) MN
CHSL 10/07/2019 (Shift-1)
28. HE, ?, NK TQ, BY
 (a) IK (b) JG (c) JH (d) IG
CHSL 10/07/2019 (Shift-2)
29. JG, LI, ?, VS, DA
 (a) PM (b) QM (c) PQ (d) OR
CHSL 10/07/2019 (Shift-3)
30. FJ, HL, ?, LP, NR
 (a) JM (b) JN (c) GM (d) IN
CHSL 11/07/2019 (Shift-1)

SOLUTIONS

1. (c) The logic is

2. (c) The Pattern is
 5, 9 18 43 92 213 382 671
 The next number is the sum of its previous and the square of a prime number. The consecutive prime numbers are increasing order.
3. (b) The pattern is

4. (d) The logic here

5. (c) The pattern is

6. (c) The pattern is

7. (a) The logic is


8. (c) The pattern is

9. (a) The pattern is

10. (c) The pattern is

11. (d) The logic is
 a b c c d | a b c c d | a b c c d | a b c c d
12. (b) The pattern is
 a b d b a c b | a b d b a c b | a b d b a c b
13. (c) The logic is
 a b d b c | a b d b c | a b d b c | a b d b c
14. (b) The pattern is
 a b d b a c d b | a b d b a c d b | a b d b a c d b | a b d b a c d b
15. (c) The pattern is
 a d b c a | a d b c a | a d b c a | a d b c a
16. (d) The pattern is
 Q C Q D P C P D | Q C Q D P C P D | Q C Q D P C P D
17. (c) The pattern is
 H C D E P C K F H | C D E P C K F H | C D E P C K F H

18. (c) The logic is.
 $T \underline{C} Q \underline{M} B \underline{C} D \underline{N} | T \underline{C} Q \underline{M} B \underline{C} D \underline{N} | T \underline{C} Q \underline{M} B \underline{C} D \underline{N}$
19. (c) The logic is
 $U \underline{K} D \underline{R} P \underline{K} Q \underline{R} | U \underline{K} D \underline{R} P \underline{K} Q \underline{R} | U \underline{K} D \underline{R} P \underline{K} Q \underline{R}$
20. (b) The logic is
 $s \underline{p} d \underline{m} r \underline{q} c \underline{t} s \underline{p} d \underline{m} r \underline{q} c \underline{t} s \underline{p} d \underline{m} r \underline{q} c \underline{t}$
21. (b) The pattern is
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| J | $\frac{+3}{-2}$ | M | $\frac{+3}{-2}$ | P | $\frac{+3}{-2}$ | S | $\frac{+3}{-2}$ | V |
| V | $\frac{-2}{+2}$ | T | $\frac{-2}{+2}$ | R | $\frac{-2}{+2}$ | P | $\frac{-2}{+2}$ | N |
| D | $\frac{+2}{-2}$ | F | $\frac{+2}{-2}$ | H | $\frac{+2}{-2}$ | J | $\frac{+2}{-2}$ | L |
22. (a) The logic is.
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| D | $\frac{+2}{+1}$ | F | $\frac{+2}{+1}$ | H | $\frac{+2}{+1}$ | J | $\frac{+2}{+1}$ | L |
| O | $\frac{+1}{-2}$ | P | $\frac{+1}{-2}$ | Q | $\frac{+1}{-2}$ | R | $\frac{+1}{-2}$ | S |
| P | $\frac{-2}{-2}$ | N | $\frac{-2}{-2}$ | L | $\frac{-2}{-2}$ | J | $\frac{-2}{-2}$ | H |
23. (a) The pattern is
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| F | $\frac{+3}{+5}$ | I | $\frac{+3}{+5}$ | L | $\frac{+3}{+5}$ | O | $\frac{+3}{+5}$ | R |
| B | $\frac{+5}{+4}$ | G | $\frac{+5}{+4}$ | L | $\frac{+5}{+4}$ | Q | $\frac{+5}{+4}$ | V |
| A | $\frac{+4}{-4}$ | E | $\frac{+4}{-4}$ | I | $\frac{+4}{-4}$ | M | $\frac{+4}{-4}$ | Q |
24. (d) The logic is
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| L | $\frac{+3}{-2}$ | O | $\frac{+3}{-2}$ | R | $\frac{+3}{-2}$ | U | $\frac{+3}{-2}$ | X |
| V | $\frac{-2}{+2}$ | T | $\frac{-2}{+2}$ | R | $\frac{-2}{+2}$ | P | $\frac{-2}{+2}$ | N |
| D | $\frac{+2}{-2}$ | F | $\frac{+2}{-2}$ | H | $\frac{+2}{-2}$ | J | $\frac{+2}{-2}$ | L |
25. (a) The pattern is
- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|----|---|
| B | E | D | G | F | K | H | Q | J | Y |
| +2 | | +2 | | +2 | | +2 | | +2 | |
| +2 | | +4 | | +6 | | +8 | | | |

26. (d) The pattern is
- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|----|---|
| O | L | Q | O | S | R | U | U | W | X |
| +2 | | +2 | | +2 | | +2 | | +2 | |
| +3 | | +3 | | +3 | | +3 | | | |
27. (a) The logic is
- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|---|---|
| G | D | I | F | M | J | S | P | A | X |
| +2 | | +4 | | +6 | | +8 | | | |
| +2 | | +4 | | +6 | | +8 | | | |
28. (d) The pattern is
- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|---|---|
| H | E | J | G | N | K | T | Q | B | Y |
| +2 | | +4 | | +6 | | +8 | | | |
| +2 | | +4 | | +6 | | +8 | | | |
29. (a) The logic is
- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|---|---|
| J | G | L | I | P | M | V | S | D | A |
| +2 | | +4 | | +6 | | +8 | | | |
| +2 | | +4 | | +6 | | +8 | | | |
30. (b) The pattern Follows here
- | | | | | | | | | | |
|----|---|----|---|----|---|----|---|----|---|
| F | J | H | L | J | N | L | P | N | R |
| +2 | | +2 | | +2 | | +2 | | +2 | |
| +2 | | +2 | | +2 | | +2 | | +2 | |

EXERCISE 1C

For SSC CGL & CPO Exams

Direction (Q1 to 10): Which number will replace the question mark (?) in the following series?

- 11, 12, 36, 41, ?, 296
 (a) 123 (b) 287 (c) 205 (d) 48
SSC CGL 06/03/2020 (Shift-2)
- 58, 73, 99, 138, 193, ?, 368
 (a) 268 (b) 260 (c) 312 (d) 329
SSC CGL 06/03/2020 (Shift-3)
- 17, 19, 22, 27, 34, 45, 58, ?
 (a) 78 (b) 73 (c) 75 (d) 67
SSC CGL 07/03/2020 (Shift-1)
- 35, 36, 40, ?, 83, 208, 244
 (a) 73 (b) 55 (c) 67 (d) 60
SSC CGL 07/03/2020 (Shift-2)
- 1, 5, 9, ?, 21
 (a) 15 (b) 19 (c) 11 (d) 20
SSC CGL 07/03/2020 (Shift-3)
- 39, 50, 63, 80, ?, 122, 151, 182
 (a) 99 (b) 108 (c) 105 (d) 90
SSC CGL 09/03/2020 (Shift-2)
- 45, 63, 101, 160, 241, ?
 (a) 368 (b) 345 (c) 305 (d) 319
SSC CGL 09/03/2020 (Shift-3)
- 160, 183, 213, 252, 303, ?, 446
 (a) 361 (b) 333 (c) 379 (d) 367
SSC CPO 24/11/2020 (Shift-1)

- 46, 66, 94, 132, 182, ?
 (a) 292 (b) 220 (c) 246 (d) 232
SSC CPO 24/11/2020 (Shift-3)
 - 16, 32, ?, 192, 576, 1152
 (a) 96 (b) 80 (c) 64 (d) 48
SSC CPO 24/11/2020 (Shift-3)
- Direction (Q11 to 18):** Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.
- _Z _ C _ L Z _ C _ L _ X _ V L _ _ V
 (a) L, X, V, X, V, Z, C, Z, X, C
 (b) X, Z, L, X, V, Z, C, C, C, L
 (c) L, X, C, X, V, C, Z, C, Z, C
 (d) L, X, V, V, X, C, C, X, Z, Z
SSC CGL 11/04/2022 (Shift-1)
 - _L H _ _ U _ H _ _ U _ H _ N U _ _ E N
 (a) U, E, N, L, E, N, L, E, L, H (b) E, U, N, L, N, E, L, E, H, L
 (c) U, E, L, E, N, N, L, H, N, E (d) U, E, N, L, E, L, H, L, E, H
 - S P _ _ _ P S T S _ _ _ S P S _
 (a) P S S P P S S (b) T S S P T S S
 (c) S T S P S T T (d) P S T S P T T
SSC CGL 11/04/2022 (Shift-3)
 - C _ B N _ _ V _ _ H C _ B _ H
 (a) VCBHNVN (b) HVCNBVN
 (c) VHCBNVN (d) VHBNCNV
SSC CGL 12/04/2022 (Shift-1)

15. Q _ T _ S _ K _ R _ _ _ K _ R S **SSC CGL 13/04/2022 (Shift-3)**
 (a) KRQTSKT (b) KRQTSQT
 (c) KRTRSQT (d) KRQTSQR
16. g _ o _ d k _ m _ f _ o _ k k _ g f o _ d _ k m **SSC CGL 18/04/2022 (Shift-1)**
 (a) f o k d o d m o k (b) f o k g o d m o k
 (c) f o k g o d f o k (d) f o k g o d m o m
17. K _ _ N L _ N K _ N _ L N K _ M _ L M _ **SSC CGL 18/04/2022 (Shift-2)**
 (a) L, M, M, M, K, L, K, N (b) L, M, M, K, K, L, N, N
 (c) M, M, L, K, K, L, K, N (d) L, M, M, K, K, M, K, N
18. d _ a _ b _ q d h _ a _ c q _ h _ a _ c q **SSC CGL 18/04/2022 (Shift-3)**
 (a) h a c a b d a b (b) h a b a b d a b
 (c) h a c a b d q b (d) h a q a b d a b
- Direction (Q19 to 30): Select the term that will come next in the following series.**
19. PNNA, RPPE, TRRI, VTTO, ? **SSC CGL 13/08/2021 (Shift-1)**
 (a) XWWU (b) XVVU (c) YUUU (d) YVVU
20. OAST, OASU, OAAU, ?, SDUU **SSC CGL 13/08/2021 (Shift-3)**
 (a) ODVU (b) PDUU (c) OCUU (d) ODUU
21. UTMD, QXIH, MBEL, IFAP, ? **SSC CGL 13/08/2021 (Shift-3)**
 (a) EKWU (b) EKXT (c) EJWU (d) DJVT

22. THME, WKJB, ZNGY, CQDV, ? **SSC CGL 16/08/2021 (Shift-1)**
 (a) FUAS (b) FTBS (c) FTAR (d) FTAS
23. GCB, JHE, MMH, PRK, ? **SSC CGL 16/08/2021 (Shift-2)**
 (a) RVM (b) SXM (c) TXO (d) SWN
24. BOARD, BOARW, BOAIW, ?, BLZIW, YLZIW **SSC CGL 16/08/2021 (Shift-3)**
 (a) BOAIW (b) BOZIW
 (c) BOZRW (d) BLZRW
25. ABD, CEI, EHN, ? **SSC CGL 17/08/2021 (Shift-3)**
 (a) GKS (b) GIM
 (c) FJR (d) GHJ
26. DOWN, CRR, BUM, AXHI, ? **SSC CGL 18/08/2021 (Shift-1)**
 (a) ZACP (b) APCZ
 (c) ACPZ (d) CAPZ
27. A, D, ?, P, Y **SSC CGL 07/03/2020 (Shift-3)**
 (a) J (b) I (c) G (d) H
28. eBd, hXi, kTn, nPs, ? **SSC CGL 07/03/2020 (Shift-1)**
 (a) Qlv (b) pLw (c) qLx (d) qKx
29. P, N, J, H, ? **SSC CGL 17/08/2021 (Shift-1)**
 (a) B (b) E (c) D (d) C
30. H, Q, I, T, K, ?, N **SSC CGL 18/08/2021 (Shift-3)**
 (a) Y (b) J (c) U (d) A

SOLUTIONS

1. (b) The pattern is
- $$\begin{array}{ccccccccc} 11 & & 12 & & 36 & & 41 & & 287 & & 296 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & +1 & & \times 3 & & +5 & & \times 7 & & +9 \end{array}$$
2. (a) The pattern is
- $$\begin{array}{cccccccc} 58 & & 73 & & 99 & & 138 & & 193 & & 268 & & 368 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & 15 & & 26 & & 39 & & 55 & & 75 & & 100 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & 11 & & 13 & & 16 & & 20 & & 25 \end{array}$$

+2 +3 +4 +5
3. (c) The logic Follows here
- $$\begin{array}{cccccccc} 17 & & 19 & & 22 & & 27 & & 34 & & 45 & & 58 & & 75 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & +2 & & +3 & & +5 & & +7 & & +11 & & +13 & & +17 \end{array}$$
4. (d) The pattern is
- $$\begin{array}{cccccccc} 35 & & 36 & & 40 & & 67 & & 83 & & 208 & & 244 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & 1^3 & & 2^2 & & 3^3 & & 4^2 & & 5^3 & & 6^2 \end{array}$$
5. (a) The logic here
- 1 5 9 15 21
- A E J O U
6. (a) The logic is
- $$\begin{array}{cccccccc} 35 & & 50 & & 63 & & 80 & & 99 & & 122 & & 151 & & 182 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & +11 & & +13 & & +17 & & +19 & & +23 & & +29 & & +31 \end{array}$$

7. (a) The pattern is
- $$\begin{array}{ccccccccc} 45 & & 63 & & 101 & & 160 & & 241 & & 345 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & 18 & & 38 & & 59 & & 81 & & 104 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & 20 & & 21 & & 22 & & 23 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & 1 & & 1 & & 1 \end{array}$$
8. (d) Logic follows here
- $$\begin{array}{cccccccc} 160, & 183, & 213 & 252 & 303 & 367 & 446 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & 23 & & 30 & & 39 & & 51 & & 64 & & 79 \\ & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow \\ & & 4^2+7 & & 5^2+5 & & 6^2+3 & & 7^2+2 & & 8^2+0 & & 9^2+(-2) \end{array}$$
9. (c) The pattern is
- $$\begin{array}{cccccccc} 46 & & 66 & & 94 & & 132 & & 182 & & 246 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & +20 & & +28 & & +38 & & +50 & & +64 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & +8 & & +10 & & +12 & & +14 \end{array}$$
10. (a) The pattern is
- $$\begin{array}{ccccccccc} 16 & & 32 & & 96 & & 192 & & 576 & & 1152 \\ & \diagdown & & \diagup & & \diagdown & & \diagup & & \diagdown & & \diagup \\ & & \times 2 & & \times 3 & & \times 2 & & \times 3 & & \times 2 \end{array}$$

11. (a) The pattern is
 $\underline{L} \ Z \ \underline{X} \ C \ \underline{V} \ | \ \underline{L} \ Z \ \underline{X} \ C \ \underline{V} \ | \ \underline{L} \ Z \ X \ C \ \underline{V} \ | \ \underline{L} \ Z \ X \ C$
12. (a) The pattern is
 $\underline{U} \ L \ H \ \underline{E} \ N \ | \ \underline{U} \ L \ H \ \underline{E} \ N \ | \ \underline{U} \ L \ H \ E \ N \ | \ \underline{U} \ L \ H \ E \ N$
13. (c) The pattern is
 $S \ P \ S \ I \ | \ S \ P \ S \ T \ | \ S \ P \ S \ I \ | \ S \ P \ S \ I$
14. (c) The logic is
 $C \ \underline{V} \ B \ N \ H \ | \ C \ \underline{V} \ B \ N \ H \ | \ C \ \underline{V} \ B \ N \ H$
15. (b) The logic is
 $Q \ \underline{K} \ T \ R \ S \ | \ Q \ \underline{K} \ I \ R \ S \ | \ Q \ \underline{K} \ I \ R \ S$
16. (b) The pattern is
 $g \ f \ o \ o \ d \ k \ k \ m \ | \ g \ f \ o \ o \ d \ k \ k \ m \ | \ g \ f \ o \ o \ d \ k \ k \ m$
17. (a) The pattern is
 $K \ L \ M \ N \ | \ L \ M \ N \ K \ | \ M \ N \ K \ L \ | \ N \ K \ L \ M \ | \ K \ L \ M \ N$
18. (a) The pattern is
 $d \ \underline{h} \ a \ \underline{b} \ c \ q \ d \ \underline{h} \ a \ \underline{b} \ c \ q \ d \ \underline{h} \ a \ \underline{b}$
19. (b) The logic is
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| P | $\frac{+2}{+2}$ | R | $\frac{+2}{+2}$ | T | $\frac{+2}{+2}$ | V | $\frac{+2}{+2}$ | X |
| N | $\frac{+2}{+2}$ | P | $\frac{+2}{+2}$ | R | $\frac{+2}{+2}$ | T | $\frac{+2}{+2}$ | V |
| N | $\frac{+2}{+2}$ | P | $\frac{+2}{+2}$ | R | $\frac{+2}{+2}$ | T | $\frac{+2}{+2}$ | V |
| A | $\frac{+4}{+4}$ | E | $\frac{+4}{+4}$ | I | $\frac{+4}{+4}$ | O | $\frac{+4}{+4}$ | U |
20. (d) The logic is
 $O \ A \ S \ T \ O \ A \ S \ U \ O \ A \ U \ U \ O \ D \ U \ U \ S \ D \ U \ U$
21. (c) The pattern is
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| U | $\frac{-4}{+4}$ | Q | $\frac{-4}{+4}$ | M | $\frac{-4}{+4}$ | I | $\frac{-4}{+4}$ | E |
| T | $\frac{-4}{+4}$ | X | $\frac{-4}{+4}$ | B | $\frac{-4}{+4}$ | F | $\frac{-4}{+4}$ | J |
| M | $\frac{-4}{+4}$ | I | $\frac{-4}{+4}$ | E | $\frac{-4}{+4}$ | A | $\frac{-4}{+4}$ | W |
| D | $\frac{-4}{+4}$ | H | $\frac{-4}{+4}$ | L | $\frac{-4}{+4}$ | P | $\frac{-4}{+4}$ | T |
22. (d) The pattern is
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| T | $\frac{+3}{+3}$ | W | $\frac{+3}{+3}$ | Z | $\frac{+3}{+3}$ | C | $\frac{+3}{+3}$ | F |
| H | $\frac{+3}{+3}$ | K | $\frac{+3}{+3}$ | N | $\frac{+3}{+3}$ | Q | $\frac{+3}{+3}$ | T |
| M | $\frac{-3}{-3}$ | J | $\frac{-3}{-3}$ | G | $\frac{-3}{-3}$ | D | $\frac{-3}{-3}$ | A |
| E | $\frac{-3}{-3}$ | B | $\frac{-3}{-3}$ | Y | $\frac{-3}{-3}$ | V | $\frac{-3}{-3}$ | S |
23. (d) The pattern is
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| G | $\frac{+3}{+5}$ | J | $\frac{+3}{+5}$ | M | $\frac{+3}{+5}$ | P | $\frac{+3}{+5}$ | S |
| C | $\frac{+5}{+3}$ | H | $\frac{+5}{+3}$ | M | $\frac{+5}{+3}$ | R | $\frac{+5}{+3}$ | W |
| B | $\frac{+3}{+3}$ | E | $\frac{+3}{+3}$ | H | $\frac{+3}{+3}$ | K | $\frac{+3}{+3}$ | N |

24. (b) The pattern Follows here
 BOARD, BOARW, BOAIW, BOZIW BLZIW
 one letter starting from the last letter of the word BOARD its changed to its opposite letter in each step.
25. (a) The pattern is
- | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|
| A | $\frac{+2}{+3}$ | C | $\frac{+2}{+3}$ | E | $\frac{+2}{+3}$ | G |
| B | $\frac{+3}{+5}$ | E | $\frac{+3}{+5}$ | H | $\frac{+3}{+5}$ | K |
| D | $\frac{+5}{+5}$ | I | $\frac{+5}{+5}$ | N | $\frac{+5}{+5}$ | S |
26. (a) The pattern is
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| D | $\frac{-1}{+3}$ | C | $\frac{-1}{+3}$ | B | $\frac{-1}{+3}$ | A | $\frac{-1}{+3}$ | Z |
| O | $\frac{+3}{-5}$ | R | $\frac{+3}{-5}$ | U | $\frac{+3}{-5}$ | X | $\frac{+3}{-5}$ | A |
| W | $\frac{-5}{+7}$ | R | $\frac{-5}{+7}$ | M | $\frac{-5}{+7}$ | H | $\frac{-5}{+7}$ | C |
| N | $\frac{+7}{+7}$ | U | $\frac{+7}{+7}$ | B | $\frac{+7}{+7}$ | I | $\frac{+7}{+7}$ | P |
27. (b) The pattern is
- | | | | | |
|-------|-------|---------|-------|-------|
| A | D | \perp | P | Y |
| 1^2 | 2^2 | 3^2 | 4^2 | 5^2 |
28. (c) The logic follows here
- | | | | | | | | | |
|---|-----------------|---|-----------------|---|-----------------|---|-----------------|---|
| e | $\frac{+3}{-4}$ | h | $\frac{+3}{-4}$ | k | $\frac{+3}{-4}$ | n | $\frac{+3}{-4}$ | q |
| B | $\frac{-4}{+5}$ | X | $\frac{-4}{+5}$ | T | $\frac{-4}{+5}$ | P | $\frac{-4}{+5}$ | L |
| d | $\frac{+5}{+5}$ | i | $\frac{+5}{+5}$ | n | $\frac{+5}{+5}$ | s | $\frac{+5}{+5}$ | x |
29. (c) The pattern is
- | | | | | |
|----|----|----|----|----|
| P | N | J | H | D |
| 16 | 14 | 10 | 8 | 4 |
| | -2 | +4 | -2 | +4 |
30. (a) The pattern Follows
- | | | | | | | |
|---|----|----|-----|----|----------|-----|
| H | Q | I | T | K | <u>Y</u> | N |
| 8 | 17 | 9 | 20 | 11 | 25 | 14 |
| | +9 | -8 | +11 | -9 | +14 | -11 |
| | | | +2 | | +3 | |
| | | | +1 | | +2 | |