

EXERCISE 2A

For SSC GD & MTS Exams

- Select the number-pair in which the two numbers are related in the same way as the two numbers of the following number-pair.
6 : 85
(a) 7 : 112 (b) 9 : 181 (c) 5 : 50 (d) 8 : 114
SSC MTS 2/11/2021 (Shift-3)
- 46 : 61
(a) 60 : 28 (b) 521 : 52 (c) 27 : 3 (d) 612 : 36
SSC MTS 02/11/2021 (Shift-2)
- 10 : 24
(a) 140 : 165 (b) 48 : 49 (c) 50 : 80 (d) 70 : 120
SSC MTS 02/11/2021 (Shift-1)
- Select the set in which the numbers are related in the same way as the numbers of the following set.
(12, 30, 204)
(a) (9, 12, 225) (b) (11, 15, 236)
(c) (4, 12, 28) (d) (15, 20, 265)
SSC MTS 2/11/2021 (Shift-3)
- {16, 30, 36}
(a) {12, 24, 32} (b) {14, 32, 48}
(c) {16, 48, 64} (d) {9, 24, 25}
SSC MTS 02/11/2021 (Shift-1)
- Select the number triad that is analogous to the given triads.
(64, 8, 65) (125, 27, 89)
(a) (100, 23, 90) (b) (216, 1, 81)
(c) (49, 36, 25) (d) (83, 24, 95)
SSC MTS 2/11/2021 (Shift-2)
- 'IPL' is related to 'Cricket' in the same way as 'Wimbledon' is related to '_____'.
(a) Football (b) Tennis
(c) Hockey (d) Badminton
SSC MTS 2/11/2021 (Shift-3)
- 'Pressure' is related to 'Pascal' and 'Electricity' is related to 'Watt' in the same way as 'Heat' is related to '_____'.
(a) Ohm (b) Volt (c) Joule (d) Bar
SSC MTS 2/11/2021 (Shift-3)
- Select the name from the options that is similar to the given set of names in a certain manner.
Bismillah Khan, JRD Tata, M Visvesvaraya, Sachin Tendulkar
(a) Mahatma Gandhi (b) Baba Amte
(c) Pranab Mukherjee (d) Viswanathan Anand
SSC MTS 02/11/2021 (Shift-2)
- 'Track' is related to 'Athlete' in the same way as 'Classroom' is related to '_____'.
(a) Student (b) Teaching
(c) Study (d) School
SSC MTS 02/11/2021 (Shift-1)
- 'Entertainment' is related to 'Television' in the same way as 'Warmth' is related to '_____'.
(a) Temperature (b) Proximity
(c) Woollens (d) Day
SSC MTS 02/11/2021 (Shift-1)
- Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.
ABRUPT : BZUQUN :: SUDDEN : ?
(a) TSGZJH (b) URGFJP (c) URFGJP (d) TSAHJH
SSC MTS 02/11/2021 (Shift-3)
- GILP : TPMK :: DGKP : ?
(a) WURN (b) WRNK (c) WTPK (d) VQMJ
SSC MTS 02/11/2021 (Shift-1)
- ROL : URO :: TAG : ?
(a) XEL (b) XEK (c) WEJ (d) WDJ
MTS 09/08/2019 (Shift-3)
- ROLF : VTRM :: NODP : ?
(a) RTJW (b) SUKX (c) RUJW (d) SVRX
MTS 09/08/2019 (Shift-1)
- ROAD : TREI :: MINT : ?
(a) OMRY (b) PMSZ (c) PNSZ (d) OLRV
MTS 08/08/2019 (Shift-3)
- TOK : SNJ :: LAP : ?
(a) KAN (b) KAO (c) KZO (d) LAN
MTS 08/08/2019 (Shift-2)
- Select the option that is related to the third term in the same way as the second term is related to the first term.
Mirror : Reflection :: Prism : ?
(a) Reflection (b) Scattering
(c) Inversion (d) Dispersion
SSC MTS 27/10/2021 (Shift-3)
- Jute : Sack :: Wood : ?
(a) Furniture (b) Brown (c) Plastic (d) Hard
MTS 08/08/2019 (Shift-3)
- Plate : Utensils :: Car : ?
(a) Driver (b) Vehicle (c) Tyre (d) Bike
MTS 09/08/2019 (Shift-3)
- Green : Colour :: Cricket : ?
(a) Ball (b) Bat (c) Game (d) Hockey
MTS 09/08/2019 (Shift-2)
- Court : Tennis :: Rink : ?
(a) Golf (b) Skating (c) Cricket (d) Chess
MTS 09/08/2019 (Shift-2)
- Cold : Refrigerator :: Hot : ?
(a) Paper (b) Cold (c) Oven (d) AC
MTS 09/08/2019 (Shift-1)
- Season : Winter :: Figure : ?
(a) Diagonal (b) Angle (c) Triangle (d) Sides
MTS 09/08/2019 (Shift-1)
- Film : Producer :: Poem : ?
(a) Director (b) Actor (c) Poet (d) Cobbler
MTS 08/08/2019 (Shift-3)
- Select the option that is related to the third number in the same way as the second number is related to the first number.
13 : 182 :: 18 : ?
(a) 338 (b) 306 (c) 324 (d) 342
SSC MTS 27/10/2021 (Shift-3)
- 14 : 68 :: 16 : ?
(a) 87 (b) 78 (c) 95 (d) 26
MTS 09/08/2019 (Shift-2)
- 95 : 141 :: 87 : ?
(a) 147 (b) 137 (c) 133 (d) 127
MTS 09/08/2019 (Shift-1)

29. 596 : 965 :: 824 : ? **MTS 08/08/2019 (Shift-3)**
 (a) 248 (b) 408
 (c) 418 (d) 258
30. Select the option that is related to the fourth term in the same way as the first term is related to the second term.
 DFIM : CEHL :: ? : KMPT **MTS 13/08/2019 (Shift-1)**
 (a) LNUQ (b) LNQU
 (c) JLOS (d) UVWL

31. Select the option that is related to the fourth term in the same way as the first term is related to the second term.
 16 : 272 :: ? : 380 **MTS 13/08/2019 (Shift-1)**
 (a) 17 (b) 19 (c) 21 (d) 23
32. Select the word pair in which the two words are related in the same way as the two words in the following word-pair.
 Arc : Circle :: ? **MTS 09/08/2019 (Shift-3)**
 (a) Watch : Needle (b) House : Room
 (c) Blade : Sofa (d) Tyre : Bike

SOLUTIONS

1. (b) ATQ
 6:85
 Logic is :
 $6^2 + 7^2 = 36 + 49 = 85$
 Similarly,
 $9^2 + 10^2 = 81 + 10 = 181$
 Hence, option (b) is Correct
2. (b) ATQ,
 46 : 61
 Reversing the digits of given number
 $46 \rightarrow 64 \rightarrow 4^3$
 $61 \rightarrow 16 \rightarrow 4^2$
 Similarly,
 $521 \rightarrow 125 \rightarrow 5^3$
 $52 \rightarrow 25 \rightarrow 5^2$
 Hence, option (b) is Correct.
3. (c) Pattern is : $3^2 + 1 : 5^2 - 1$
 by option (c)
 $7^2 + 1 : 9^2 - 1 = 50 : 80$
4. (d) ATQ,
 (12, 30, 204) $12^2 + 30 \times 2 = 144 + 60 = 204$
 Similarly,
 (15, 20, 265) $15^2 + 20 \times 2 = 225 + 40 = 265$
 Hence, option (d) is Correct.
5. (d) ATQ,
 (16, 30, 36) $\rightarrow (4)^2, (6)^2 = 4+6=10 \times 3 = 30$
 Similarly,
 (9, 24, 25), $\rightarrow (3)^2, (5)^2 = 3+5=8 \times 3 = 24$
 Hence, option (d) is Correct.
6. (d) ATQ,
 (64, 8, 65), (125, 27, 89)
 * $64 - 8 = 56$ interchange digit = 65
 * $125 - 27 = 98$ interchange digit = 89.
 Similarly,
 (83, 24, 95)
 $83 - 24 = 59$ interchange digit = 95
 Hence, option (d) is Correct.
7. (b) ATQ,
 IPL related to \rightarrow Cricket
 Wimbledon related to \rightarrow Tennis
 Hence, option (b) is Correct-
8. (c) ATQ,
 'Pascal' is the unit of Pressure.

- 'watt' is the unit of Electricity .
 'Joule' is the Unit of Heat.
 Hence, option (c) is Correct
9. (c) ATQ,
 Bismillaha khan, Sachin Tendulkar, visvesvaraya JRD
 Tata, Pranab Mukherjee (awarded Bharat Ratan)
 Hence, option (c) is Correct.
10. (a) ATQ,
 'Track' is related to 'Athlete'
 Similarly,
 'Student' is related to 'Classroom'
 Hence, option(a) is Correct.
11. (a) ATQ
 'Entertainment' is related to 'Television'
 Similarly,
 'Warmth' is temperature related to
 Hence, option () is correct
12. (a) ATQ,
 Given pattern
- | | | |
|----------------------|------------|----------------------|
| A ± 1 B | similarly, | S ± 1 T |
| B $\underline{-2}$ Z | | U $\underline{-2}$ S |
| R ± 3 U | | D ± 3 G |
| U $\underline{-4}$ Q | | D $\underline{-4}$ Z |
| P ± 5 U | | E ± 5 J |
| T $\underline{-6}$ N | | N $\underline{-6}$ H |
- Hence, option (a) is Correct.
13. (c) ATQ,
- | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| | | | | | | | | | | | | |
| Z | X | Y | W | U | V | T | S | R | Q | P | O | N |
- $\begin{matrix} \text{G} & & \text{I} & & \text{L} & & \text{P} \\ \downarrow & & \downarrow & & \downarrow & & \downarrow \\ \text{opposite} & \text{opp}+2 & \text{opp}+2 & \text{opposite} & & & \\ \text{T} & & \text{P} & & \text{M} & & \text{K} \end{matrix}$
- Similarly,
- | | | | |
|------------|------------|------------|------------|
| D | G | K | P |
| \downarrow | \downarrow | \downarrow | \downarrow |
| opposite | opposite+2 | opposite+2 | opposite |
| W | R | N | K |
- Hence, option (b) is correct.
14. (d) ATQ,
- | | | | | | |
|---|---|----|---|---|---|
| R | O | L | U | R | O |
| | | +3 | | | |
| | | +3 | | | |
- Similarly
- | | | |
|---|----|---|
| T | +3 | W |
| A | +3 | D |
| G | +3 | J |

15. (a) ATQ,
 ROLF : VTRM :: NODP :
 R +4 V Similarly, N +4

R

 O +5 T O +5

T

 L +6 R D +6

J

 F +7 M P +7

W

 Hence option (a) is Correct.
16. (d) ATQ,
 ROAD : TREE :: MINT :
 R +2 T Similarly, M +2

O

 O +3 R I +3

L

 A +4 E N +4

R

 D +5 E T +5

Y

 Hence, option (c) is Correct.
17. (c) ATQ,
 TOK : SNJ :: LAP :
 T -1 S Similarly, L -1

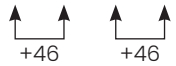
K

 O -1 N A -1

Z

 K -1 J P -1

O

 Hence option (c) is Correct.
18. (d) ATQ,
 Mirror : Reflection :: Prism
 Mirror , Reflection of light
 Prism , Dispersion of light
 Hence, option (d) is Correct.
19. (a) ATQ,
 Jute : Sack :: Wood :
 Jute makes a sack and furniture makes a
 Wood
 Hence, Option (a) is Correct.
20. (b) ATQ,
 Plate : Utensils :: Car :
 Plate is related to utensils and car is related to
 vehicles
 Hence, option (b) is a Correct.
21. (c) ATQ,
 Green : Colour :: Cricket : Game
 Hence, option (c) is Correct.
22. (b) ATQ,
 Court : Tennis :: Rink
 Tennis is related to Court and 'Skating' is related
 to Rink
 Hence, option (b) is Correct.
23. (c) ATQ,
 Cold : Refrigerator :: Hot : Ovan
 Hence, Option (c) is Correct.
24. (c) ATQ,
 Season : winter :: figure : Triangles
 Winter is a part of Season and Triangle is a figure.
 Hence, Option (c) is Correct.
25. (c) ATQ,
 Film : Producer :: Poem : Poet
 Hence , option (c) is Correct.
26. (d) ATQ,
 13 : 182 :: 18
 13 × 14 = 182
 Similarly
 18 × 19 = 342
 Hence, option (d) is correct.
27. (b) ATQ,
 14 : 68 :: 16 :
 14 × 5 - 2 = 70 - 2 = 68
 Apply Similarly pattern
 16 × 5 - 2 = 80 - 2 = 78
 Hence, option (b) is Correct.
28. (c) ATQ,
 95 : 141 :: 87 : 133

 Hence, option (c) is Correct.
29. (a) ATQ,
 596 : 965 :: 824 : 248
 5 + 9 + 6 = 20 Similarly 8 + 2 + 4 = 14
 9 + 6 + 5 = 20
 Hence, option (a) is Correct.
30. (c) ATQ,
 DFIM : CEHL :: ? : KMPT
 D -1 C Similarly

J
L
O
S

 -1 K
 F -1 E

M

 I -1 H

P

 M -1 L

T

 Hence, option (c) is Correct.
31. (b) ATQ,
 16 : 272 :: 19 : 380
 272 divided by 16 and 380 divided by 19
 Hence, option (b) is Correct.
32. (d) ATQ,
 Arc : circle :: Tyre : Bike
 Arc is inside circle and Tyre is inside Bike
 Hence, option (d) is Correct.

EXERCISE 2B

For SSC CHSL Exam

1. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.
 SIMPLE : ISNKE :: PUBLIC : UPYOCI :: MINUTE : ?
SSC CHSL 31/05/2022 (Shift-3)
 (a) NIMTUE (b) NIMETU (c) IMUNET (d) IMMFET
2. Tis : Sit :: Tip : Pit :: Ten : ? **SSC CHSL 31/05/2022 (Shift-3)**
 (a) Ken (b) Net (c) Set (d) Pen
3. ACCURATE : RATEACCU :: ANALYSIS : YSISANAL :: CAPACITY : ?
SSC CHSL 31/05/2022 (Shift-2)
 (a) CITYPACA (b) YTICAPAC
 (c) CITYCAPA (d) PACACITY

4 ■ SSC Reasoning

4. BIRTHDAY : HDAYBIRT :: CHILDREN : DRENCHIL :: PROGRESS : ?
SSC CHSL 31/05/2022 (Shift-1)
 (a) SSERGORP (b) RPOGRESS
 (c) GRESSPRO (d) RESSPROG
5. GREATLY : ERGAYLT :: MIXTURE : XIMTERU :: TROUBLE : ?
SSC CHSL 30/05/2022 (Shift-3)
 (a) BORTUEL (b) ORTUEBL
 (c) TUELBOR (d) ORTUELB
6. ABILITY : ITYLABI :: INSTEAD : EADTINS :: ENGLISH : ?
SSC CHSL 30/05/2022 (Shift-2)
 (a) ISHLENG (b) LISHNGE
 (c) ESHLING (d) IHSLEGN
7. 11 : 1309 :: 15 : 3345 :: 7 : ?
SSC CHSL 01/06/2022 (Shift-3)
 (a) 329 (b) 333 (c) 330 (d) 335
8. 7 : 71 :: 13 : 209 :: 16 : ?
SSC CHSL 31/05/2022 (Shift-1)
 (a) 291 (b) 317 (c) 305 (d) 309
9. 13 : 130 :: 15 : 180 :: 27 : ?
SSC CHSL 30/05/2022 (Shift-3)
 (a) 649 (b) 658 (c) 650 (d) 648
10. 4 : 80 :: 7 : 392 :: 5 : ?
SSC CHSL 30/05/2022 (Shift-3)
 (a) 148 (b) 136 (c) 162 (d) 150
11. Select the set in which the numbers are related in the same way as the numbers of the following set.
 (18, 5, 65)
 (14, 3, 61)
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
SSC CHSL 01/06/2022 (Shift-1)
 (a) (22, 16, 87) (b) (24, 16, 90)
 (c) (23, 19, 57) (d) (25, 11, 4)
12. (90, 15, 21)
 (16, 2, 10)
 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
SSC CHSL 30/05/2022 (Shift-1)
 (a) (80, 20, 16) (b) (80, 6, 15)
 (c) (46, 23, 25) (d) (60, 10, 6)
13. Select the set in which the numbers are related in the same way as the numbers of the following set.
 (56, 12, 672)
SSC CHSL 30/05/2022 (Shift-1)
 (a) (17, 13, 426) (b) (15, 18, 478)
 (c) (14, 21, 294) (d) (16, 16, 326)
14. (360, 12, 60)
SSC CHSL 31/05/2022 (Shift-3)
 (a) (362, 13, 54) (b) (342, 19, 36)
 (c) (369, 15, 78) (d) (398, 16, 34)
15. (15, 102, 313)
CHSL 2/7/2019 (Shift-3)
 (a) (11, 74, 229) (b) (5, 32, 121)
 (c) (8, 53, 164) (d) (9, 60, 185)

16. (5, 2, 30)
CHSL 2/7/2019 (Shift-1)
 (a) (5, 1, 29) (b) (9, 2, 87)
 (c) (4, 3, 28) (d) (7, 8, 114)
17. (11, 13, 288)
CHSL 03/7/2019 (Shift-1)
 (a) (7, 11, 162) (b) (19, 23, 828)
 (c) (3, 5, 31) (d) (13, 17, 415)
18. Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
 9 : 126 :: ? : 238 :: 21 : 294
SSC CHSL 31/05/2022 (Shift-3)
 (a) 18 (b) 28
 (c) 22 (d) 17
19. 64 : 320 :: ? : 70 :: 22 : 110
SSC CHSL 30/05/2022 (Shift-3)
 (a) 12 (b) 14
 (c) 8 (d) 17
20. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
 5 : 35 :: 9 : ? :: 14 : 224
SSC CHSL 31/05/2022 (Shift-1)
 (a) 99 (b) 113 (c) 107 (d) 87
21. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.
 MARKET : IEONCV :: THERMO : _____
CHSL 2/7/2019 (Shift-1)
 (a) PLBUKQ (b) JKCTKQ
 (c) PLDSKQ (d) JLZUKQ
22. GATE : HXYX :: SINK : _____
CHSL 01-July-19 (Shift-3)
 (a) TGSE (b) TETD
 (c) TESD (d) TFSD
23. LENOVO : EKISSQ :: FINGER : _____
CHSL 2/7/2019 (Shift-2)
 (a) YOIJBT (b) YOIKBT
 (c) YNIKBT (d) YOIKCT
24. Select the word-pair in which the two words related in the same way as the two words in the following word-pair.
 Candle : Illuminate
CHSL 2/7/2019 (Shift-2)
 (a) Fan : Suffocation (b) Bulb : Dark
 (c) Refrigerator : Cool (d) Oven : Grind
25. Myopic : Farsighted
CHSL 2/7/2019 (Shift-3)
 (a) Famous : Obscure (b) Confusion : Chaotic
 (c) Postpone : Suspend (d) Trouble : Grief
26. Year : June
CHSL 03/7/2019 (Shift-1)
 (a) Week : Thursday (b) April : Month
 (c) Week : Calendar (d) Year : Century
27. 'Iraq' is related to 'Dinar' in the same way as 'Myanmar' is related to '_____'.
CHSL 2/7/2019 (Shift-2)
 (a) Yen (b) Lira
 (c) Kyat (d) Rand
28. 'Cone' is related to 'Ice Cream' in the same way as 'Bowl' is related to '_____'.
CHSL 2/7/2019 (Shift-3)
 (a) Soup (b) Soap
 (c) Sip (d) Drink

SOLUTIONS

1. (d) ATQ,
SIMPLE : ISNKEL :: PUBLIC : UPYOCI :: MINUTE :
- S → I, I → S, P → U, U → P, M → I, I → M
 L → E, E → L, C → I, I → C, T → E, E → T
- M Opposite N, B Opposite Y, N Opposite M
 P Opposite K, L Opposite O, U Opposite F
- Hence, option (d) is Correct.
2. (b) ATQ,
Tis : Sit :: Tip : Pit :: Ten :
- T → S, S → T, i → t, t → i, P → T, T → P, e → t, t → e
- Hence, option (b) is Correct.
3. (c) ATQ,
ACCURATE : RATEACCU :: ANALYSIS : YSISANAL ::
CAPACITY
- Given Pattern
ACCURATE RATAACCU
ANALYSIS YSISANA
- Similar
CAPACITY — **CITYCAPA**
- ∴ Option (c) is Correct.
4. (d) ATQ,
BIRTHDAY : HDAYBIRT :: CHILDREN : DRENCHIL ::
PROGRESS : **RESSPROG**
- ∴ Option (d) is Correct.
5. (d) ATQ,
GREATLY : ERGAYTLI :: MIXTURE : XIMTEU :: TROUBLE :
ORTUELB
- ∴ Option (a) is Correct.
6. (a) ATQ,
ABILITY : ITLABI :: INSTEAD : EADTINS :: ENGLISH : **ISHLENG**
- Option (a) is Correct.
7. (a) ATQ,
11 : 1309 :: 15 : 3345 :: 7 : _____
1309 divided by 11 and 3345 divided by 15
So, 329 divided by 7
Hence, option (a) is Correct.
8. (c) ATQ,
7 : 71 :: 13 : 209 :: 16 : _____
7 × 10 + 1 = 71 Similar, 16 × 19 + 1 = 305
13 × 16 = 1 = 209
Hence, option (c) is Correct.
9. (d) ATQ,
13 : 130 :: 15 : 180 :: 27 : _____
130 is divided by 13 and 100 divided by 15
So, 648 is divided by 27
Option (d) is Correct.
10. (d) ATQ,
4 : 80 :: 17 : 392 :: 5 : **(150)**
80 is divided by 4 and 392 is divided by 7
So, 150 is divided by 5
∴ Option (d) is Correct.

11. (d) ATQ,
Given (18, 5, 65) (14, 3, 61)
- Ist number ⇒ $\frac{IIRD\ number + (IIND\ number)^2}{5}$
- $\frac{65 + (5)^2}{5} = \frac{65 + 25}{5} = \frac{90}{5} = 18$
 $\frac{61 + (3)^2}{5} = \frac{61 + 9}{5} = \frac{70}{5} = 14$
- $\frac{4 + (11)^2}{5} = \frac{4 + 121}{5} = \frac{125}{5} = 25$
- Hence, option (d) is correct.
12. (c) ATQ,
(90, 15, 21) (16, 2, 10)
- 1) 90 ÷ 15 = 6 + 15 = 21
 2) 16 ÷ 2 = 8 + 2 = 10
- Similarly
46 ÷ 23 = 2 + 23 = 25
- Hence, option (c) is Correct.
13. (c) ATQ,
(56, 12, 672)
- Pattern – 56 × 12 = 672
- Similarly
14 × 21 = 294
- Option (c) is Correct.
14. (b) ATQ,
(360, 12, 60)
- Pattern : 360 ÷ 12 = 30 × 2 = 60
- Similarly 342 ÷ 19 = 18 × 2 = 36
- (342, 19, 36)
- Option (b) is Correct.
15. (a) ATQ,
(15, 102, 313)
- 15 × 7 = 105 – 3 = 102
 15 × 21 = 315 – 2 = 313
- Let check option (a) (11, 74, 229)
- 11 × 7 = 77 – 3 = 74
 11 × 21 = 231 – 2 = 229
- Hence, option (a) is Correct.
16. (d) ATQ,
(5, 2, 30)
- 5² + 2² + 1 = 25 + 4 + 1 = 30
- Given pattern apply only option (d)
 7² + 8² + 1 = 49 + 64 + 1 = 114
- Hence, option (d) is Correct.
17. (a) ATQ,
(11, 13, 288)
- $\frac{(Ist\ number + IIND\ number)^2}{2}$
- $\Rightarrow \frac{(11 + 13)^2}{2} = \frac{(24)^2}{2} = \frac{576}{2} = 288$
- Similarly,
Option (a) (7, 11, 162)

$$\Rightarrow \frac{(7+11)^2}{2} = \frac{(18)^2}{2} = \frac{324}{2} = 162$$

∴ Option (a) is Correct.

18. (d) ATQ,

$$9 : 126 :: 238 : 21 : 294$$

$$126 \div 9 = 14 \text{ then, } 238 \div 14 = 17$$

$$294 \div 21 = 14$$

∴ Option (d) is Correct.

19. (b) ATQ,

$$64 : 320 :: 70 : 22 : 110$$

$$64 \times 5 = 320 \quad \text{Similar} = 14$$

$$22 \times 5 = 110$$

∴ Option (b) is Correct.

20. (a) ATQ,

$$5 : 35 :: 9 : 14 : 224$$

35 is divided by 5 and 224 is divided by 14
So, 99 is divided by 9
Hence, option (a) is Correct.

21. (a) ATQ,

MARKET : IEONCV :: THERMD : ___

M <u>-4</u> I	T <u>-4</u> P
A <u>+4</u> E	H <u>+4</u> L
R <u>-3</u> O	E <u>-3</u> B
K <u>+3</u> N	R <u>+3</u> U
E <u>-2</u> C	M <u>-2</u> K
T <u>+2</u> V	O <u>+2</u> Q

∴ Option (a) is Correct.

22. (d) ATQ,

GATE : HXYX :: SINK :

G <u>+1</u> H	S <u>+1</u> T
A <u>-3</u> X	I <u>-3</u> F
T <u>+5</u> Y	N <u>+5</u> S
E <u>-7</u> X	K <u>-7</u> D

∴ Option (d) is correct.

23. (b) ATQ,

LENOVO : EKISSQ :: FINGER :

L <u>-7</u> E	F <u>-7</u> Y
E <u>+6</u> K	I <u>+6</u> O
N <u>-5</u> I	N <u>-5</u> I
O <u>+4</u> S	G <u>+4</u> K
V <u>-3</u> S	E <u>-3</u> B
O <u>+2</u> Q	R <u>+2</u> T

∴ Option (b) is Correct.

24. (c) ATQ,

Candle : illuminate
Candle is used to light up of space
↓
(illuminate)

Same as
Refrigerator is used to cool the thing .
Refrigerator : Cool
∴ Option (c) is Correct.

25. (a) ATQ,

Myopic : farsighted
Farsighted is an antonym of Myopic
Famom is an antonym of obscure
∴ Option (a) is Correct.

26. (a) ATQ,

YEAR : June
Similar as
Week : Thursday
∴ Option (a) is Correct.

27. (c) ATQ,

'Dinar' is a Currency of Iraq
'kyat' is a currency of Myanmar
∴ Option (c) is Correct.

28. (a) ATQ,

Ice cream is served in Cone
Similar,
Soup is Served in Bowl.
∴ Option (a) is Correct.

EXERCISE 2C

For SSC CGL & CPO Exams

- Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.
21 : 112 :: 36 : ? :: 51 : 272 **SSC CGL 18/04/2022 (Shift-1)**
(a) 192 (b) 252 (c) 72 (d) 198
- 16 : 263 :: 18 : ? :: 22 : 491 **SSC CGL 18/04/2022 (Shift-3)**
(a) 317 (b) 361 (c) 331 (d) 340
- 5 : 27 :: 7 : ? :: 8 : 39 **SSC CGL 19/04/2022 (Shift-1)**
(a) 36 (b) 38 (c) 37 (d) 35
- 13 : 4 :: 19 : ? :: 16 : 5 **SSC CGL 13/08/2021 (Shift-3)**
(a) 5 (b) 2 (c) 6 (d) 3
- 12 : 72 :: 18 : ? :: 22 : 242 **CGL 3/3/2020 (Shift-1)**
(a) 160 (b) 164 (c) 162 (d) 140
- Select the option in which the words share the same relationship as that shared by the given pair of words. **SSC CGL 18/08/2021 (Shift-3)**
Jharkhand : Ranchi

- (a) Sikkim : Itanagar (b) Mizoram : Kohima
(c) Assam : Jorhat (d) Meghalaya : Shillong
- Barometer : Pressure **SSC CPO 13/12/2019 (Shift-3)**
(a) Thermometer : Volume (b) Ammeter : Current
(c) Scale : Seconds (d) Voltmeter : Heat
- Swan : Cygnet **SSC CGL 18/08/2021 (Shift-1)**
(a) Fish : Cub (b) Whale : Fry
(c) Turkey : Poult (d) Deer : Joey
- Flower : Floriculture **SSC CGL 17/08/2021 (Shift-3)**
(a) Mushroom : Viticulture
(b) Honey : Horticulture
(c) Earthworm : Vermiculture
(d) Silk : Silviculture
- Sympathy : Affinity **SSC CGL 17/08/2021 (Shift-2)**
(a) Vivid : Dark (b) Tranquil : Serene
(c) Tame : Harsh (d) Vain : Modest
- Select the option that is related to the fourth number in the same way as the first number is related to the

second number and the fifth number is related to the sixth number.

- 83 : 3 :: ? : 5 :: 258 : 4
(a) 123 (b) 222 (c) 627 (d) 527 **SSC CGL 18/08/2021 (Shift-2)**
12. 8 : 24 :: ? : 52 :: 18 : 114
(a) 20 (b) 16 (c) 14 (d) 12 **SSC CGL 20/08/2021 (Shift-2)**
13. 11 : 81 :: ? : 121 :: 8 : 36
(a) 12 (b) 13 (c) 10 (d) 18 **SSC CGL 20/08/2021 (Shift-1)**
14. Select the option that is related to the third number in the same way as the second number is related to the first number.
18 : 10 :: 24 : ?
(a) 13 (b) 12 (c) 17 (d) 29 **SSC CGL 21/4/2022 (Shift-3)**
15. 91 : 104 :: 161 : ?
(a) 235 (b) 237 (c) 184 (d) 344 **SSC CPO 13/12/2019 (Shift-3)**
16. 13 : 1728 :: 17 : ?
(a) 1928 (b) 4096 (c) 3218 (d) 2043 **SSC CGL 21/4/2022 (Shift-2)**
17. 13 : 1331 :: 17 : ?
(a) 2642 (b) 1453 (c) 3375 (d) 1829 **SSC CGL 21/4/2022 (Shift-1)**
18. 147 : 222 :: 158 : ?
(a) 264 (b) 225 (c) 287 (d) 233 **SSC CGL 20/4/2022 (Shift-1)**
19. Select the option that is related to the third term in the same way as the second term is related to the first term.
CANOPY : DCQSUE :: TONSIL : ?
(a) URQWNS (b) UQQXOR
(c) UQRVNR (d) UQQWNR **SSC CGL 21/4/2022 (Shift-3)**
20. CARNATIC : SBDMZDJU :: FREEDOMS : ?
(a) FSGVWTNP (b) FSGVXPNP
(c) FSGUNPEV (d) GSFVWPEP **SSC CGL 20/4/2022 (Shift-1)**

21. Medicine : Disease :: Food : ? **SSC CGL 3/3/2020 (Shift-1)**
(a) Hunger (b) Energy (c) Nutrition (d) Thirst
22. DEMOGRAPHY : EDMHSPAYH :: BACKGROUND : ?
(a) DNKCSHUOAB (b) ABKCHSUODN
(c) ABKCSHUODN (d) DNKCHSUOAB **CPO 13/12/2019 (Shift-3)**
23. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.
GTQ : JVP :: SDK : ?
(a) VFJ (b) UGF (c) UEK (d) VGK **SSC CGL 21/4/2022 (Shift-2)**
24. JST : HPX :: PWJ : ?
(a) NTN (b) MSR (c) MTN (d) NSP **SSC CGL 21/4/2022 (Shift-1)**
25. DFC : WHX :: KFQ : ?
(a) PHJ (b) QHJ (c) RGK (d) QHK **SSC CGL 20/4/2022 (Shift-3)**
26. FPD : UKI :: LWP : ?
(a) PUX (b) PHV (c) ODU (d) ODT **SSC CGL 20/4/2022 (Shift-2)**
27. Select the option in which the numbers are NOT related in the same way as are the numbers of the following set.
(7, 51, 22)
(a) (11, 123, 26) (b) (3, 11, 18)
(c) (6, 38, 22) (d) (4, 18, 19) **SSC CGL 17/08/2021 (Shift-3)**
28. (90, 450, 810)
(a) (5, 25, 45) (b) (21, 105, 189)
(c) (7, 35, 56) (d) (17, 85, 153) **SSC CPO 12/12/2019 (Shift-3)**
29. (4, 8, 16)
(a) (20, 24, 16) (b) (11, 16, 51)
(c) (24, 15, 44) (d) (18, 6, 15) **SSC CGL 17/08/2021 (Shift-3)**
30. (9, 21, 124)
(a) (17, 37, 220) (b) (5, 16, 220)
(c) (14, 58, 112) (d) (11, 64, 131) **SSC CGL 17/08/2021 (Shift-2)**

SOLUTIONS

1. (a) ATQ,
21 : 112 :: 36 : ? : 51 : 272
⇒ 21 → 7 × 3
⇒ 112 → 6 × 7
⇒ 36 → 12 × 3 : 16 × 12 = 192
⇒ 51 → 17 × 3
⇒ 272 → 16 × 17
Hence, option (a) is Correct.
2. (c) ATQ,
16 : 263 :: 18 : ? : 22 : 491
⇒ (16)² + 7 = 256 + 7 = 263
⇒ (22)² + 7 = 484 + 7 = 491
Similarly,
(18)² + 7 = 324 + 7 = 331
Hence, option (c) is Correct.
3. (d) ATQ,
5 : 27 :: 7 : ? : 8 : 39
The pattern is.
5 × 4 + 7 = 20 + 7 = 27
And,
8 × 4 + 7 = 32 + 7 = 39

- Similarly,
7 : ?
7 × 4 + 7 = 28 + 7 = 35
Hence, option (d) is Correct.
4. (c) ATQ,
13 : 4 :: 19 : ? : 16 : 5
Pattern followed :
⇒ 4 × 3 + 1 = 12 + 1 = 13
⇒ 5 × 3 + 1 = 15 + 1 = 16
⇒ 6 × 3 + 1 = 18 + 1 = 19
Hence, option (c) is Correct.
5. (c) ATQ,
12 : 72 :: 18 : ? : 22 : 242
72 is divided by 12 and 242 is divided by 22
So, 162 is divided by 18
Hence, option (c) is Correct.
6. (d) ATQ,
Jharkhand : Ranchi
Ranchi is the capital of Jharkhand.
So, shilong is the capital of Meghalaya.
∴ Option (d) is Correct.

7. (b) ATQ,
Barometer : Pressure
Barometer related to Pressure
So, Ammeter is related to Current
∴ Option (b) is Correct.
8. (c) ATQ,
Swan : Cygnet
A baby of Swan is called Cygnet
A baby of turkey is called Poul
∴ Option (c) is Correct.
9. (c) ATQ,
Flower : floriculture
The Study of cultivation of flower is called floriculture.
So,
The Study of earthworm is called Vermiculture.
∴ Option (c) is Correct.
10. (b) ATQ,
Sympathy : Affinity
Word Sympathy is Synonyms of Affinity
Then,
Word 'Tranquil' is Synonyms Serene
Option (b) is Correct.
11. (c) ATQ,
83 : 3 :: ? : 5 :: 258 : 4
The Pattern is,
⇒ $(3)^4 + 2 = 81 + 2 = 83$
and
⇒ $(4)^4 + 2 = 256 + 2 = 258$
Similarly,
⇒ $(5)^4 + 2 = 625 + 2 = 627$
Hence, option (c) is Correct.
12. (d) ATQ,
8 : 24 :: ? : 52 :: 18 : 114
The pattern is
8 : 24
⇒ $(8 \times 9) \div 3 = 72 \div 3 = 24$
and
10 : 19
⇒ $(18 \times 19) \div 3 = 342 \div 3 = 114$
Similarly
? : 52
⇒ $(12 \times 13) \div 2 = 156 \div 3 = 52$
Hence, option (d) is Correct.
13. (b) ATQ,
11 : 81 :: ? : 121 :: 8 : 36
The pattern is, 11 : 81
⇒ $11 - 2 = (9)^2 = 81$
and 8 : 36
⇒ $8 - 2 = (6)^2 = 36$
Similarly,
 $121 \rightarrow (11)^2 \rightarrow 11 + 2 = 13$
Hence, option (b) is Correct.
14. (a) ATQ,
18 : 10 :: 24 : ?
The pattern is
⇒ $10 \times 2 - 2 = 20 - 2 = 18$
Similarly
⇒ $13 \times 2 - 2 = 26 - 2 = 24$
Hence, option (a) is Correct.

15. (c) ATQ,
91 : 104 :: 161 : ?
The pattern is :
⇒ $91 \div 13 = 7$ or $13 \times 7 = 91$
⇒ $104 \div 13 = 8$ or $13 \times 8 = 104$
Similarly
⇒ $23 \times 7 = 161$
⇒ $23 \times 8 = 184$
Hence option (c) is Correct.
16. (b) ATQ,
13 : 1728 :: 17 : ?
The Pattern is :
⇒ 13
⇒ $12 \times 12 \times 12 = 1728$
Similarly
17 : ____
⇒ $16 \times 16 \times 16 = 4096$
Hence, option (b) is Correct.
17. (c) ATQ,
13 : 1331 :: 17 : ?
The pattern is :
13 : 1331
13 : $(11)^3$
Similarly,
17 : $(15)^3$
17 : 3375
Hence option (c) is Correct.
18. (d) ATQ,
147 : 222 :: 158 : ?
The pattern is :
147 : 222
⇒ $147 + 15 \times 5 = 222$
Similarly
158 : ____
⇒ $158 + 15 \times 5 = 233$
Hence, option (d) is Correct.
19. (d) ATQ,
CANOPY : DCQSUE :: TONSIL : ?
C +1 D Similarly T +1 U
A +2 C O +2 Q
N +3 Q N +3 Q
O +4 S S +4 W
P +5 U I +5 N
Y +6 E L +6 R
∴ Option (d) is Correct.
20. (a) ATQ,
CAR NATIC : SBDMZDJU :: FREEDOMS : ____
The pattern is:
C +1 I Similarly F +1 F
A +2 S R +2 S
R +3 N E +3 G
N Opposite K E Opposite V
A Opposite E D Opposite W
T +1 L O +1 T
I +2 J M +2 N
C +3 U S +3 P
∴ Option (a) is Correct.

21. (a) ATQ,
Medicine : Disease :: Food : Hunger
Option (a) is Correct.

22. (b) ATQ,
DEMOGRAPHY : EDOMHSPAYH :: BACKGROUND
: ABKCHSUODN
∴ Option (b) is Correct.

23. (a) ATQ,
GTQ : JVP :: SDK : ---
The pattern is :
G +3 J Similarly, S +3 V
T +2 V D +2 F
Q -1 P K -1 J
∴ Option (a) is Correct.

24. (a) ATQ,
JST : HPX :: PWJ : ___
J -2 H Similarly, P -2 N
S -3 P W -3 T
T +4 X J +4 N
∴ Option (a) is Correct.

25. (a) ATQ,
DFC : WHX :: KFQ : ___
D $\xleftrightarrow{\text{opp.}}$ W Similarly, K $\xleftrightarrow{\text{opp.}}$ P
F +2 H F +2 H
C $\xleftrightarrow{\text{opp.}}$ X Q $\xleftrightarrow{\text{opp.}}$ J
∴ Option (a) is Correct.

26. (c) ATQ,
The pattern is :
FDD : UKI :: LWP : ___
F $\xleftrightarrow{\text{opp.}}$ U Similarly L opp. O
P opp. K W opp. D
D +5 I P +5 U
∴ Option (c) is correct.

27. (c) ATQ,
(7, 51, 22)
The pattern is :
 $\Rightarrow 7^2 + 2 \rightarrow 49 + 2 = 51$
 $\Rightarrow 7 + 15 = 22$
Similarly,
Check the options,
(a) $11^2 + 2 = 121 + 2 = 123$
 $\Rightarrow 11 + 15 = 26$
(b) (3, 11, 18)
 $\Rightarrow 3^2 + 2 = 9 + 2 = 11$
3 + 15 = 18

(c) (6, 38, 22)
 $\Rightarrow 6^2 + 2 = 36 + 2 = 38$
 $\Rightarrow 6 + 15 = 21$
Hence, option (c) is Correct.

28. (c) ATQ,
(90, 450, 810)
The pattern is :
 $90 \div 90 = 1$
 $\Rightarrow 450 \div 90 = 5$
 $\Rightarrow 810 \div 90 = 9$
Similarly,
Check the options
(a) 5, 25, 45 $\Rightarrow 5 \div 5 = 1$
 $25 \div 5 = 5$
 $45 \div 5 = 9$
(b) 21, 105, 109 - 1, 5, 9
(c) 7, 35, 56
 $\Rightarrow 7 \div 7 = 1$
 $\Rightarrow 35 \div 7 = 5$
 $\Rightarrow 56 \div 7 = 8$
(d) 17, 85, 153
 $\Rightarrow 17 \div 17 = 1$
 $\Rightarrow 85 \div 17 = 5$
 $\Rightarrow 153 \div 17 = 9$
∴ Option (c) is Correct.

29. (a) ATQ,
(9, 21, 124)
The pattern is :
 $\Rightarrow 4 + \sqrt{16} = 4 + 4 = 8$ (3rd Number)
Similarly, check the options
(a) (20, 24, 16)
 $\Rightarrow 20 + \sqrt{16} = 20 + 4 = 24$ (3rd Number)
∴ Option (a) is Correct.

30. (a) ATQ,
(9, 21, 24)
The pattern is :
IInd Number = Ist Number $\times 2 + 3$
 $= 9 \times 2 + 3 = 18 + 3 = 21$ (IInd Number)
IIIrd Number = 21 $\times 6 - 2 = 126 - 2 = 124$
Similarly,
Check all options
Option (a)
(17, 37, 220)
 $17 \times 2 + 3 = 34 + 3 = 37$
 $37 \times 6 - 2 = 222 - 2 = 220$
Hence, option (a) is Correct.