

SERIES COMPLETION

The questions in this section may be given by writing the number continuously, plus –1, 2, 3, . . ., minus 1, 2, 3, . . ., square, cube, multiply with 2, 3, 4, . . ., divided by 2, 3, 4, ..., alternatively or by skipping some numbers. The students should read the questions carefully and fill in the blanks with suitable numbers from the given choices.

- 1. 1, 2, 6, 10, 11, 12, 16, 20, 21, 22, 26 —
- **Sol.** In this series 1st two letters are continued, then plus–4, twice then two letter are continued, then plus–4, twice. Hence the answer is 30.

2. 2, 4, 8, 16, 32, 64, 128, 256 —

Sol. In this series the number is every time multiplied by 2 to get the consecutive number. Hence the answer is 512.

3. 4, 16, 12, 48, 44, 176, 172 —

Sol. In this series the 1^{st} number is multiplied by 4, then minus – 4 and so on for every consecutive number. Hence the answer in 688

5. 8, 4, 40, 20, 200, 100, 1000, 500 —

Sol. In this series every number is multiplied by 5 to bring the alternative number. Hence the answer is 5000.

6. 1, 2, 4, 7, 11, 16, 22, 29, 37 —

- Sol. This series can be observed as under.
 - 1 + 1 = 2 2 + 2 = 4 4 + 3 = 7 7 + 4 = 11 11 + 5 = 16 16 + 6 = 22 22 + 7 = 2929 + 8 = 37

Hence 37 + 9 = 46 is the answer.

7. Likewise above example we can place the series having differences in decreasing order: 35, 27, 20, 14, 9, 5 — .

Sol. We can observe the series as under

35 - 8 = 27 27 - 7 = 20 20 - 6 = 14 14 - 5 = 9 9 - 4 = 5Hence 5 - 3 = 2 is the answer.



8. We can give a complex problem series such as :

2, 4, 5, 15, 17, 68, 71, 355, 359 — .

Sol. This series can be observed as under :

 $2 \times 2 = 4 + 1 = 5$ $5 \times 3 = 15 + 2 = 17$ $17 \times 4 = 68 + 3 = 71$ $71 \times 5 = 355 + 4 = 359$ Hence $359 \times 6 = 2154$ is the answer.

9. 1, 2, 6, 24, 120 —

Sol. This series can be observed as under :

 $1 \times 1 = 1$ $1 \times 2 = 2$ $2 \times 3 = 6$ $6 \times 4 = 24$ $24 \times 5 = 120$ Hence 120 x 6 = 720 is the answer.

10. Here we give another complex problem series :

- Sol. 4, 16, 80, 240, 1440, 2880 —. This can be observed as under : $4 \times 4 = 16 \times 5 = 80$ $80 \times 3 = 240 \times 6 = 1440$ $1440 \times 2 = 2880 \times 7 = 20160$ Hence 20160 in the answer
- 11. There are some problems having the number being square of the predecessor number like 2, 4, 16, 256 –
- **Sol.** In this series $2 \times 2 = 4$

 $4 \times 4 = 16$

 $16 \times 16 = 256$

Hence $256 \times 256 = 65536$ is the answer.

- 12. There may be some series having square of some number in decreasing or increasing order like 1, 4, 9, 16, 25, 36, 49 .
- Sol. In this series we can observe as below :
 - $1^2~=1$
 - $2^2 = 4$
 - $3^2 = 9$



 $4^{2} = 16$ $5^{2} = 25$ $6^{2} = 36$ $7^{2} = 49$ hence 8 = 64 is the answer.

13. There may be some series having cubes of some numbers according to some rules like 8, 27, 64, 125 –

Sol. In this series we can observe as under

2 x 2 x 2 = 8 3 x 3 x 3 = 27 5 x 5 x 5 = 125 Hence 6 x 6 x 6 = 216 is the answer.

14. There may be some series having mixed problems with square & cubes like : 4, 8, 9, 27, 16, 64 — .

Sol. In this series we can observe as under :

 $2 \times 2 = 4, 2 \ge 2 \ge 8$ $2 \times 2 = 4, 2 \ge 2 \ge 2 = 8$ $3 \times 3 = 9, 3 \ge 3 \ge 3 \ge 27$ $4 \ge 4 = 16, 4 \ge 4 \ge 4 = 64$ Hence $5 \ge 5 = 25$ is the answer to fill the blanks.

- 15. There may be some complex problems having square, cube, plus & minus according to some rules : 4 5 8, 7, 9, 10, 27, 26, 16, 17, 64, 63, 25 —.
- Sol. We can observe the above series as under .

Square Plus – 1	Cube minus – 1
$2^2 = 4 + 1 = 5$,	$2^3 = 8 - 1 = 7$
$3^2 = 9 + 1 = 10,$	3 = 27 - 1 = 26
$4^2 = 16 + 1 = 17,$	$4^3 = 64 - 1 = 63$
$5^2 = 25$	
Hence $25 + 1 = 26$ is the answer.	

Under this head following types of questions are asked :

- 1. Number-Series
- 2. Alphabet-Series
- 3. Letter-Series



Number-Series—In this type a number-series is given in which either next term is asked or some wrong term which does follow the series, is to find out.
Under this head following types of series are given—

Arithmetic progression (**A. P.**)—In this type of series the difference of two consecutive terms is same. Sometimes series are so given that the difference of two terms is same.

16. In the following series, find the term in place of question-mark. 15, 22, 29, 36, ?, 50, 57 43 **(A) (B)** 42 **(C)** 40 **(D)** 44 Sol. (A) 43 50 $15 \quad 22 \quad 29 \quad 36$ 57 50 17. In the following series find the number in place of question mark ? 40, 34, 28, 22, 10 (A) 14 **(B)** 15 (C) 16 **(D)** 17 Sol. **(C)** 28 22 16 34 10 18. In the following series find the! term in place of question mark ? 15, 30, 60, 105, 165, ?

(A) 210 (B) 220 (C) 230 (D) 240 Sol. (D) +30 + 60 + 15 30 60 105 165 240

Geometrical Progression (G. P.)—In this type of series the ratio of two consecutive terms is same.

19.	In the	e following se	eries which r	number will	replace the q	uestion m	ark ?	
	4, 32,	16, 128, 64,	?					
	(A)	612	(B)	512	(C)	362	(D)	412



Sol. (B):



Mixed Series—In this type of series, both types of series A. P and G. P. are together.

20. In the following series, which number will replace the question mark ?

2, 5, 12, 39, 160, 805, ?

(A) 4936 **(B)** 4930 **(C)** 4830 **(D**) 4836 Sol. **(D)** 12 39 160 805 4836 5 2

Compound Series—In this type of series, it is a mixture of two or more than two series.

21. In the following series, which number will replace the question mark ?

4, 2, 5, 4, 7, 6, 10, 8, 14, ? (A) 10 (B) 12

Sol. (A)



Series of Prime Numbers — In this type of series, the difference of two consecutive numbers is a prime number, or each term contains a prime number.

(C)

18

19

(D)

22. In the following series, which number will replace the question mark ? 23, 29, 31, 37, 41, 43,? **(A)** 45 49 **(B)** 53 **(C)** 47 **(D)** (**C**) Sol. On looking the series we see that each number of the series is a prime number and each subsequent term is the next prime number. Hence, in place of question mark the next prime number to 43 will come. But the next prime number to 43 is 47. Hence, 47 will replace the question mark.



Series based on squares and cubes-In this type of series the difference between two consecutive numbers will always be in the form of a square or a cube or the terms will be in the form of square or cube.

1, 4,	9, 16, 25,	36,?				
(A)	40	(B)	45	(C)	49	(D)
(C)						
	1, 4,	9, 16,	25, 3	6, <u>49</u>		
	\downarrow \downarrow	$\downarrow \downarrow$	Į.	\downarrow \downarrow		
	$1^2 2^2$	3 ² 4 ²	5 ² 6	5^2 7^2		
In the	e following	series which	number	will replace the	e question m	ark ?
0, 6, 2	24, 60, 120,	210, ?				
(A)	336	(B)	343	(C)	300	(D)
(A)						
	0,	5, 24, 60	, 120,	210, 336		
	\downarrow	$\downarrow \downarrow \downarrow \downarrow$	\downarrow	$\downarrow \downarrow$		
	$1^3 - 1 - 2^3$	-2 $3^{3}-3$ $4^{3}-$	-4 5 ⁴ -5	6^3-6 7^3-7		

candidate has to find out the missing series.

25. DKM, FJP, HIS, JHV?

(A) HGY **(B)** IGZ **(C)** IGY **(D**) LGY Sol. **(D)**: $D \xrightarrow{+2} F \xrightarrow{+2} H \xrightarrow{+2} J \xrightarrow{+2} J$ $K \xrightarrow{-1} J \xrightarrow{-1} I \xrightarrow{-1} H \xrightarrow{-1} H$ $M \xrightarrow{+3} P \xrightarrow{+3} S \xrightarrow{+3} V \xrightarrow{+3} V$ L G Y Hence the correct answer is (D). 26. Q1F, S2E, U6D, W21C? Y66B (C) **(A) (B) Y88B** Z88B **(D**) Y44B Sol. **(B)** $Q \xrightarrow{+2} S \xrightarrow{+2} U \xrightarrow{+2} W \xrightarrow{+2} W \xrightarrow{+2}$ $1 \xrightarrow{\times 1+1} 2 \xrightarrow{\times 2+2} 6 \xrightarrow{\times 3+3} 21 \xrightarrow{\times 4+4}$ $F \xrightarrow{-1} E \xrightarrow{-1} D \xrightarrow{-1} C \xrightarrow{-1}$ Y 88

В

Hence the correct answer is (B).



27.	AYD, BVF, DRH, ?, KGL				
	(A) FMI (B) GMJ	(C)	HLK	(D)	GLJ
Sol.	(B)				
	$ \begin{array}{c} A \\ \bullet \end{array} \xrightarrow{+1} \\ H \\ \bullet \end{array} \xrightarrow{B} +2 \\ \bullet \end{array} \xrightarrow{D} +3 \\ \bullet \end{array} \xrightarrow{G} \\ \bullet \\ $				
	$D \longrightarrow F \longrightarrow H \longrightarrow [J] \longrightarrow L$				
	Hence the correct alternative is (B).				
28.	LPQ, NOS, PNU, RMW, ?				
	(A) TYL (B) TMY	(C)	YTL	(D)	TLY
Sol.	(D):				
	$L \xrightarrow{+2} N \xrightarrow{+2} P \xrightarrow{+2} R \xrightarrow{+2} \boxed{T}$				
	$P \xrightarrow{-1} O \xrightarrow{-1} N \xrightarrow{-1} M \xrightarrow{-1} L$				
	$Q \xrightarrow{+2} S \xrightarrow{+2} U \xrightarrow{+2} W \xrightarrow{+2} Y$				
	Hence the correct alternative is (D).				
29.	3F, 6G, III, 18L,?				
29.	3F, 6G, III, 18L,? (A) 210 (B) 25N	(C)	27Q	(D)	27P
29. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D)	(C)	27Q	(D)	27P
29. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) 3 + 3 + 6 + 5 + 11 + 7 + 18 + 9 - 27	(C)	27Q	(D)	27P
29. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} C \xrightarrow{+2} L \xrightarrow{+3} L \xrightarrow{+4} P$	(C)	27Q	(D)	27P
29. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} G \xrightarrow{+2} I \xrightarrow{+3} L \xrightarrow{+4} P$ Use of the second element in (D)	(C)	27Q	(D)	27P
29. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} G \xrightarrow{+2} I \xrightarrow{+3} L \xrightarrow{+4} P$ Hence the correct alternative is (D).	(C)	27Q	(D)	27P
29. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} G \xrightarrow{+2} I \xrightarrow{+3} L \xrightarrow{+4} P$ Hence the correct alternative is (D). MN LO KP IO IP 2	(C)	27Q	(D)	27P
29. Sol. 30.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} G \xrightarrow{+2} I \xrightarrow{+3} L \xrightarrow{+4} P$ Hence the correct alternative is (D). MN, LO, KP, JQ, IR, ? (A) CH (B) TU	(C)	27Q HS	(D)	27P
29. Sol. 30.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} G \xrightarrow{+2} I \xrightarrow{+3} L \xrightarrow{+4} P$ Hence the correct alternative is (D). MN, LO, KP, JQ, IR, ? (A) GH (B) TU (C)	(C) (C)	27Q HS	(D) (D)	27P JV
29. Sol. 30. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} G \xrightarrow{+2} I \xrightarrow{+3} L \xrightarrow{+4} P$ Hence the correct alternative is (D). MN, LO, KP, JQ, IR,? (A) GH (B) TU (C) =1 - 1 - 1 - 1 - 1	(C) (C)	27Q HS	(D) (D)	27P JV
29. Sol. 30. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} G \xrightarrow{+2} I \xrightarrow{+3} L \xrightarrow{+4} P$ Hence the correct alternative is (D). MN, LO, KP, JQ, IR,? (A) GH (B) TU (C) $M \xrightarrow{-1} L \xrightarrow{-1} K \xrightarrow{-1} J \xrightarrow{-1} I \xrightarrow{-1} H$	(C) (C)	27Q HS	(D) (D)	27P JV
29. Sol. 30. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} G \xrightarrow{+2} 1 \xrightarrow{+3} L \xrightarrow{+4} P$ Hence the correct alternative is (D). MN, LO, KP, JQ, IR,? (A) GH (B) TU (C) $M \xrightarrow{-1} L \xrightarrow{-1} K \xrightarrow{-1} J \xrightarrow{-1} 1 \xrightarrow{-1} H$ $N \xrightarrow{+1} O \xrightarrow{+1} P \xrightarrow{+1} Q \xrightarrow{+1} R \xrightarrow{+1} S$	(C) (C)	27Q HS	(D) (D)	27P JV
29. Sol. 30. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \xrightarrow{+3} 6 \xrightarrow{+5} 11 \xrightarrow{+7} 18 \xrightarrow{+9} 27$ $F \xrightarrow{+1} G \xrightarrow{+2} I \xrightarrow{+3} L \xrightarrow{+4} P$ Hence the correct alternative is (D). MN, LO, KP, JQ, IR, ? (A) GH (B) TU (C) $M \xrightarrow{-1} L \xrightarrow{-1} K \xrightarrow{-1} J \xrightarrow{-1} I \xrightarrow{-1} H$ $N \xrightarrow{+1} Q \xrightarrow{+1} R \xrightarrow{+1} S$ Hence the correct alternative is (C)	(C) (C)	27Q HS	(D) (D)	27P JV
29. Sol. 30. Sol.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \stackrel{+3}{\longrightarrow} 6 \stackrel{+5}{\longrightarrow} 11 \stackrel{+7}{\longrightarrow} 18 \stackrel{+9}{\longrightarrow} 27$ $F \stackrel{+1}{\longrightarrow} G \stackrel{+2}{\longrightarrow} I \stackrel{+3}{\longrightarrow} L \stackrel{+4}{\longrightarrow} P$ Hence the correct alternative is (D). MN, LO, KP, JQ, IR,? (A) GH (B) TU (C) $M \stackrel{-1}{\longrightarrow} L \stackrel{-1}{\longrightarrow} K \stackrel{-1}{\longrightarrow} J \stackrel{-1}{\longrightarrow} I \stackrel{-1}{\longrightarrow} H$ $N \stackrel{+1}{\longrightarrow} O \stackrel{+1}{\longrightarrow} P \stackrel{+1}{\longrightarrow} Q \stackrel{+1}{\longrightarrow} R \stackrel{+1}{\longrightarrow} S$ Hence the correct alternative is (C)	(C) (C)	27Q HS	(D) (D)	27P JV
29. Sol. 30. Sol. 31.	3F, 6G, III, 18L,? (A) 210 (B) 25N (D) $3 \stackrel{+3}{\longrightarrow} 6 \stackrel{+5}{\longrightarrow} 11 \stackrel{+7}{\longrightarrow} 18 \stackrel{+9}{\longrightarrow} 27$ $F \stackrel{+1}{\longrightarrow} G \stackrel{+2}{\longrightarrow} I \stackrel{+3}{\longrightarrow} L \stackrel{+4}{\longrightarrow} P$ Hence the correct alternative is (D). MN, LO, KP, JQ, IR,? (A) GH (B) TU (C) $M \stackrel{-1}{\longrightarrow} L \stackrel{-1}{\longrightarrow} K \stackrel{-1}{\longrightarrow} J \stackrel{-1}{\longrightarrow} I \stackrel{-1}{\longrightarrow} H$ $N \stackrel{+1}{\longrightarrow} O \stackrel{+1}{\longrightarrow} P \stackrel{+1}{\longrightarrow} Q \stackrel{+1}{\longrightarrow} R \stackrel{+1}{\longrightarrow} S$ Hence the correct alternative is (C) CFL, EIK, GLJ, 101, ?	(C) (C)	27Q HS	(D) (D)	27P JV



Sol. **(A)** $C \xrightarrow{+2} E \xrightarrow{+2} G \xrightarrow{+2} I \xrightarrow{+2} K$ $F \xrightarrow{+3} I \xrightarrow{+3} L \xrightarrow{+3} O \xrightarrow{+3} R$ $I \xrightarrow{-1} K \xrightarrow{-1} I \xrightarrow{-1} I \xrightarrow{-1}$ н Hence the correct alternative is (A). 32. BY, IQ, NK, OJ, ? (A) RF TF **(C) (B)** RE **(D)** SE Sol. **(C)** $B \xrightarrow{+7} I \xrightarrow{+5} N \xrightarrow{+3} Q \xrightarrow{+1} \begin{bmatrix} R \\ -8 \\ Q \xrightarrow{-6} K \xrightarrow{-4} G \xrightarrow{-2} \end{bmatrix} \begin{bmatrix} R \\ E \end{bmatrix}$ 33. **BCDB, CDDEC, DEEEFD,? (A)** EFFFGE **(B)** EFFFFGF **(C)** EFFFFGE FEEFGF **(D) (C)** Sol. $B \xrightarrow{+1} C \xrightarrow{+1} D \xrightarrow{+1}$ Ε $C \longrightarrow DD \longrightarrow EEE \longrightarrow$ FFFF $D \xrightarrow{+1} E \xrightarrow{+1} F \xrightarrow{+1}$ G $B \xrightarrow{+1} C \xrightarrow{+1} D \xrightarrow{+1}$ Ε Hence the correct alternative is (C). 34. BF, CH, ?, HO, LT. **(B)** (**C**) FJ **(D)** EL **(A)** EM EK Sol. **(B)** $\begin{array}{c} B \xrightarrow{+1} & C \xrightarrow{+2} & E \\ F \xrightarrow{+2} & H \xrightarrow{+3} & K \end{array} \xrightarrow{E} \xrightarrow{+3} & H \xrightarrow{+4} & L \\ F \xrightarrow{+2} & H \xrightarrow{+3} & K \end{array}$ Hence the correct alternative is (B). XDA, WED, VFG, UGJ, THM? 35. JRQ (B) QKN (C) **(A)** PLO **(D)** SIP Sol. **(D**)





Hence the correct alternative is (D).

- (3) Letter-Series—In this type of questions, a letter-series is given from which some of the letters are missing. The missing letters are given their proper sequence in one of the alternative answers. The candidate has to find out the correct alternative.
- **36.** Letters of which of the alternative answers when placed at the blank places one after another will complete the given letter-series ?

a — b b c — a a b — c c a — b b c c

(A) a c b a(B) b a c b(C) c a b a(D) a b b a

Sol. (A)

By placing the letters of alternative (A) at the blank places one after another in the given letter-series, we get a a b b c c a a b b c c a a b b c c

Thus, we get that a a b b c c is repeated three times. Hence series is formed therefore, the correct alternative is (A).

37. In the following letter-series some letters are missing. The missing letters are given in the proper sequence as one of the alternatives. Find the correct alternative.

a b — a b c a b — a b c — b c a — c (A) a b a c (B) b c a c (C) c c a b (D) b b a c

Sol. (C)

By placing the letters of the alternative (C) at the blank places one after another in the given letterseries, we get

abcabcabcabcabcabc

Thus, abc is repeated 6 times. Hence the series is formed, therefore the correct alternative is (C).

38. In the following letter-series some letters are missing. The missing letters are given in the proper sequence as one of the alternatives. Find the correct alternative.

a b a — c — c b c a a b — b c b — b c a (A) b c a b (B) b b a c (C) b b c a (D) c a b c (B)

Sol. (

By placing the letters of the alternative (B) at the blank space one after another in the given series, we get, a b a b c b c b c a a b a b c b c b c a

Thus, a b a b c l b c b c a l a b a b c l b c b c a l series is formed. Therefore, the correct alternative is (B)



Assignment

Find the missing numbers in the following series :

1.	5, 4, 7	7, 5, 9, 6 — 1	13, 7, 15, 8					
	(A)	9	(B)	8	(C)	11	(D)	12
2.	4, 11,	18, 25, —, 3	39, 46					
	(A)	30	(B)	32	(C)	31	(D)	68
3.	9, 18,	27, 36, —, 5	54, 63					
	(A)	46	(B)	44	(C)	47	(D)	45
4.	2, 9, 4	4, 7, 6, 5, 8, -	—, 10, 1					
	(A)	3	(B)	4	(C)	9	(D)	11
5.	4, 8, 1	12, 16, 20, —	-, 28, 32					
	(A)	23	(C)	26	(C)	24	(D)	25
6.	1, 8, 7	7, 14, 13, 20,	—, 26					
	(A)	21	(B)	18	(C)	22	(D)	19
7.	1, 4, 9	9, 16, 25, —,	49					
	(A)	26	(B)	36	(C)	28	(D)	30
8.	1, 9, 3	3, 7, 5, 5, 7, 3	3, 9, —, 11					
	(A)	1	(B)	10	(C)	4	(D)	5
9.	1, 3, 6	5, 10, 15, —,	28, 36					
	(A)	20	(B)	16	(C)	21	(D)	22
10.	2, 4, 3	3, 9, 4, 16, —	-, 25					
	(A)	8	(B)	6	(C)	20	(D)	5
11.	81, 64	1, 49, 36, —,	16					
	(A)	25	(B)	39	(C)	24	(D)	18
12.	2, 9, 2	28, 65, —, 21	17					
	(A)	88	(B)	127	(C)	98	(D)	126



13.	3, 6, 1 (A)	1, 18, —, 38, 51 26	(B)	28	(C)	27	(D)	40
14.	0, 3, 8 (A)	24, 15, —, 35	(B)	25	(C)	26	(D)	20
15.	1, 8, 2 (A)	7, 64, —, 216 127	(B)	125	(C)	124	(D)	128
16.	1, 3, 6	, 10, 15, —, 28, 3	36					
	(A)	24	(B)	22	(C)	64	(D)	21
17.	729, 5	12, 343, —, 125,	64					
	(A)	216	(B)	220	(C)	330	(D)	128
18.	100, 8	1, 64, —, 36, 25						
	(A)	72	(B)	52	(C)	49	(D)	50

Directions: In each of the following questions there is a series of letters. One of the term is missing. Find out the missing term.

19.	p r t,	,b d f, h j l, n p r.						
	(A)	u w y	(B)	V X Z	(C)	x z b	(D)	u x w
20.	AC, FH	I, KM, PR,						
	(A)	S U	(B)	ΤV	(C)	UW	(D)	WV
21.	G T Z,	FSY,ERX, DO	Q W,					
	(A)	C V P	(B)	C P V	(C)	VCP	(D)	VPC
Directi	ons–Fin	d the missing ter	rm in wl	hich of the follow	ving lette	ers series.		
22.	c e d, i	h g, l k m,, u t	S					
	(A)	n p o	(B)	o r q	(C)	o q p	(D)	qro
23.	prt,,	bdf, hjl, npr						
	(A)	vya	(B)	xzb	(C)	VXZ	(D)	uyb



24.	Which	n set of letters car	n be plac	ed at the sign (?) c	of interro	ogation ?		
	BEH	I, I L O, A D G, S	?					
	(A)	LOI	(B)	N Q T	(C)	ZMY	(D)	C P R
25.	In the	following letter	series wh	ich of the groups	of letters	s will replace the c	question	mark?
	BF, C	H, ?, H O, L T						
	(A)	ΕK	(B)	D N	(C)	FJ	(D)	EL
Direct	tions: In	questions 36 to	37, seleo	ct the alternative	which v	vill complete the	series.	
26.	h g f,	k j i, n						
	(A)	1 p	(B)	o q	(C)	p r	(D)	m l
27.	Whicl	n one letter-pair	will com	plete the series ?				
	Series	: A Z, C X, E V	, ?					
	(A)	G S	(B)	G T	(C)	HT	(D)	HU
Direct	tions–W	hich one of the l	letters gi	ven below each q	uestion	from 38 to 40, w	ill come	in blank space ?
28.	X, U,	R, O, L,						
	(A)	М	(B)	J	(C)	K	(D)	Ι
29.	BA, Y	Z, DC, WX,						
	(A)	DE	(B)	EF	(C)	FE	(D)	FG
30.	What	will be the next t	erm in ?					
	DCXV	W, FEVU, HG. T	S,					
	(A)	LKPO	(B)	ABYZ	(C)	JIRQ	(D)	LMRS
Direct	tions– Ir	n each of the que	estions fr	com 41 to 43, whi	ch term	s will be in the bl	ank spa	ce ?
31.	A/2, E	3/4, C/6, D/8,						
	(A)	E/16, F/32	(B)	F/32,1/14	(C)	F/12,E/16	(D)	E/10.F/12
32.	C – 3,	E – 5, G –7,1 –	9,					
	(A)	X – 24,M – 21	(B)	K – 11,M –13	(C)	O –15, X – 24	(D)	M –18,K – 14



33. Which one of the answer would be in place of question mark in the following series ?

A, CD, GHI,?, UVWXY

(A) LMNO (B) MNO (C) NOPQ (D) NOP

Directions–In each of the questions from 44 to 48, a letter series is given from which some of the letters are missing. The missing letters are given in their proper sequence in one of the alternative answers. Find out the correct answer in each question.

34.	aba-	-ab-b-ba-						
	(A)	a a a b	(B)	b a b a	(C)	b a a b	(D)	a b b b
35.	a b – a	a - b - a - b b a						
	(A)	a a a b	(B)	b a b a	(C)	a b b a	(D)	baab
36	ha	aa aha a	0.0					
50.	-0 C -		-ca	haaha	(\mathbf{C})	h h h a a		. .
	(A)		(B)	Dacda	(C)	000000	(D)	a 0 c 0 0
37.	a – b l	b – b a a —b b b	o−a a					
	(A)	b a a b b	(B)	b b a a b	(C)	a b a a b	(D)	a a b b a
38.	a - c t	b - b c - c a - a	b - b					
	(A)	abcca	(B)	bcaca	(C)	b c b b a	(D)	c a b b e

Directions—(Q. 49–50) In each of the following letter sequences some letters are missing which are given in that order as one of the four alternatives under it. Find the correct alternatives in each case and mark your answer on the answer–sheet as instructed.

39.	baal	a a b – a b a – b a b a —								
	(A)	b b a a	(B)	aaaa	(C)	a b a b	(D)	b a b a		
40.	- b b :	a – b a – b a a –								
	(A)	a b b a	(B)	a a b b	(C)	b b a a	(D)	a b a b		



Answer Key

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