

Series

Self – Evaluation Test

Direction: Replace the question mark with the correct option in each of the question from 1 to 9.

1. **3, 5, 6, 11, 9, 17, 12, ?**
(a) 20 (b) 10
(c) 22 (d) 23
(e) None of these
2. **2, 4, 7, 14, 17, 34, ?**
(a) 36 (b) 68
(c) 37 (d) 73
(e) None of these
3. **5, 7, 11,?, 35, 67**
(a) 19 (b) 24
(c) 28 (d) 32
(e) None of these
4. **3, 12, 24, 96, 192, ?**
(a) 768 (b) 384
(c) 702 (d) 298
(e) None of these
5. **24, 60, 120, 210, ?**
(a) 300 (b) 336
(c) 420 (d) 324
(e) None of these
6. **3, 8, 15, 24, ?, 48, 63**
(a) 30 (b) 32
(c) 35 (d) 36
(e) None of these
7. **4, 32, 288, ?, 31680**
(a) 2880 (b) 25600
(c) 1/5 (d) 10,000
(e) None of these
8. **18, 10, 6, 4, 3,?**
(a) 8 (b) 2
(c) 3.5 (d) 2.5
(e) None of these
9. **10, 16, 12, 20, 14?**
(a) 20 (b) 24
(c) 25 (d) 28
(e) None of these

Direction: Choose the number in questions from 10 to 18 which does not follow the pattern.

- 10. 3, 32, 363, 3993, 43923**
(a) 3903 (b) 3
(c) 32 (d) 363
(e) None of these
- 11. 5, 12, 16, 24, 27**
(a) 12 (b) 16
(c) 24 (d) 27
(e) None of these
- 12. 72, 75, 80, 83, 84, 87, 88, 89**
(a) 72 (b) 83
(c) 88 (d) 89
(e) None of these
- 13. 7, 11, 11, 9, 15, 7, 19, 5, 23, 1**
(a) 5 (b) 7
(c) 1 (d) 9
(e) None of these
- 14. 4, 7, 13, 25, 49, 97, 153**
(a) 25 (b) 49
(c) 97 (d) 153
(F) None of these
- 15. 1, 3, 8, 19, 42, 88, 184**
(a) 3 (b) 8
(c) 19 (d) 42
(e) 88
- 16. 5, 8, 10, 12, 15, 18, 20, 23**
(a) 8 (b) 12
(c) 15 (d) 18
(e) 20
- 17. 2, 6, 24, 96, 285, 568, 567**
(a) 6 (b) 24
(c) 96 (d) 285
(e) 568
- 18. 144, 121, 100, 81, 64, 49, 35, 25**
(a) 121 (b) 100
(c) 81 (d) 64
(e) 35

Direction: Replace the question mark with the correct option in each of the question from 19 to 35.

- 19. C E H J M O?**
(a) Q (b) S
(c) R (d) T
(e) None of these
- 20. A D E H I L M P Q T U?**
(a) XY (b) YZ
(c) UV (d) VW
(e) None of these
- 21. B F K Q?**
(a) U (b) T
(c) X (d) Y
(e) None of these
- 22. A E I M Q?**
(a) T (b) U
(c) V (d) W
(e) None of these
- 23. X U R O L?**
(a) J (b) G
(c) H (d) I
(e) None of these
- 24. R K F ? B**
(a) D (b) C
(c) E (d) B
(e) None of these
- 25. A B F G K L?**
(a) P (b) M
(c) R (d) O
(e) None of these
- 26. Z X V T?**
(a) Q (b) S
(c) R (d) P
(e) None of these
- 27. B Y C X D W E ?**
(a) S (b) Y
(c) U (d) V
(e) None of these
- 28. AZ, CX, EV, ?**
(a) HU (b) GS
(c) GT (d) HT
(e) None of these

29. ADG, XVT, BEH, WUS ?
(a) VTR (b) CFI
(c) DFJ (d) STU
(e) None of these

30. LAZ, NEX, PIV, ?
(a) SLS (b) QNS
(c) RMT (d) RMS
(e) None of these

31. PQR, HIJ, DEF, ?
(a) DEF (b) CDE
(c) ABC (d) BCD
(e) None of these

32. ADG, GJM, MPS, ?
(a) SVW (b) SVY
(c) SUW (d) SWY
(e) None of these

33. DJT, FIU, HHV, ?
(a) IGX (b) KGV
(c) HHW (d) JGW
(e) None of these

34. NRA, PRC, RRE, TRG, ?
(a) USI (b) VR!
(c) WRJ (d) TRI
(e) None of these

35. ZDV, XGS, VJP, ?
(a) SNM (b) TMM
(c) TNR (d) SNT
(e) None of these

Direction: Fill in the gap with the correct option in each of the question from 36 to 41.

36. A1, C2, 17, K8, (.....)
(a) Q13 (b) P13
(c) Q14 (d) P14
(e) None of these

37. J3, D5, Y13, U43, R177, (.....)
(a) P856 (b) P891
(c) P867 (d) P869
(e) None of these

38. S97, V100, Y105, B112, E123, (.....)
(a) I34 (b) J135
(c) H136 (d) K137
(e) None of these

39. $P_5QR, P_4QS, P_3QT, \dots, P_1QV$

- (a) PQW (b) PAV_2
 (c) P_2QU (d) PQ_3U
 (e) None of these

40. $DEF, DEF_2, DE_2F_2, \dots, D_2E_2F_3$

- (a) DEF_3 (b) D_3EF_3
 (c) D_2E_3F (d) $D_2E_2F_2$
 (e) None of these

41. $B_2CD, \dots, BCD_4, B_5CD, BC_6D$

- (a) B_2C_2D (b) BC_3D
 (c) B_2C_3D (d) BCD_7
 (e) None of these

Direction: Replace the question mark with the correct option in each of the question from 42 to 44.

42. **M2, P3, U7, X13, ?**

- (a) C26 (b) C27
 (c) C28 (d) C29
 (e) None of these

43. **1A, 8C, 27F, 64J, ?**

- (a) 25N (b) 625O
 (c) 625P (d) 125O
 (e) None of these

44. **r125, u64, y27, 8b, ?**

- (a) f1 (b) e2
 (c) f3 (b) d3
 (e) None of these

SOLUTIONS

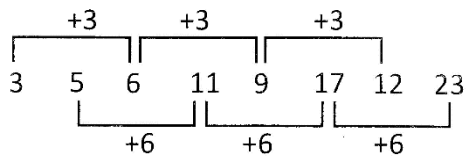
Answer Key

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

Explanation

1. Explanation

Option (d) is correct because there are two alternate series:

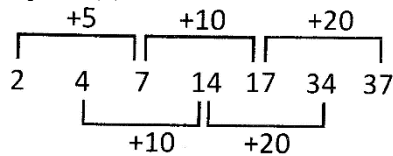


Series I: 3, 6, 9, 12 (addition of 3)

Series II: 5, 11, 17, 23, (addition of 6)

2. Explanation

Option (c) is correct there are two alternate series:



Series I: 2, 7, 17, 37

Series II: 4, 14, 34

3. Explanation

Option (a) is correct because the pattern is - double the number minus 3 to get the next number.

4. Explanation

Option (a) is correct. The sequence in the series is $\times 4$, $\times 2$ which is repeated.

5. Explanation

Option (b) is correct. The numbers in this series are the cubes of natural numbers starting from 3 minus the number itself.

24	60	120	210	336
↓	↓	↓	↓	↓
$3^3 - 3$	$4^3 - 4$	$5^3 - 5$	$6^3 - 6$	$7^3 - 7$
$27 - 3$	$64 - 4$	$125 - 5$	$216 - 6$	$343 - 7$

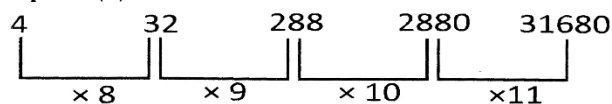
6. Explanation

Option (c) is correct. The numbers in this series are the squares of number in natural order minus 1 starting from 2.

3	8	15	24	35	48	63
↓	↓	↓	↓	↓	↓	
$2^2 - 1$	$3^2 - 1$	$4^2 - 1$	$5^2 - 1$	$6^2 - 1$	$7^2 - 1$	$8^2 - 1$

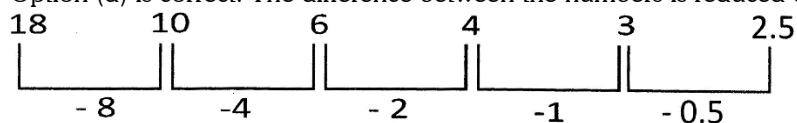
7. Explanation

Option (a) is correct. The numbers in the series are multiplied by numbers in natural order starting from 8.



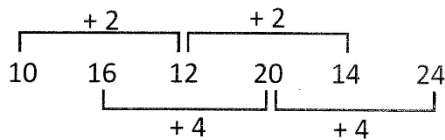
8. Explanation

Option (d) is correct. The difference between the numbers is reduced by half at each step.



9. Explanation

Option (b) is correct. There are two alternate series:

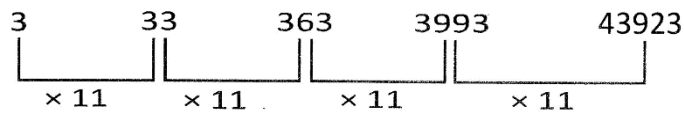


Series I: 10, 12, 14 (following +2 pattern)

Series II: 16, 20, 24 (following +4 pattern)

10. Explanation

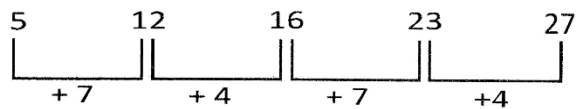
Option (c) is correct. The numbers in this series are multiplied by 11 to get the next number.



∴ 33 should be in place of 32.

11. Explanation

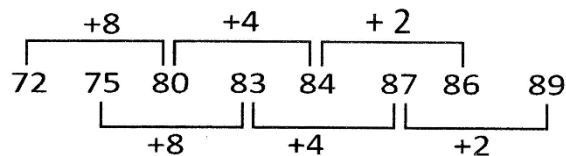
Option (c) is correct. The sequence in the series is +1, +4 which is repeated. I.e.,



∴ 23 should be in place of 24.

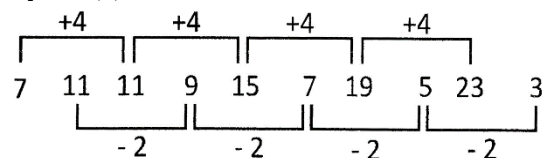
12. Explanation

Option (c) is correct. There are two alternate series. The sequence in both the series is +8, +4, +2, i.e.,



13. Explanation

Option (c) is correct. There are two alternate series;

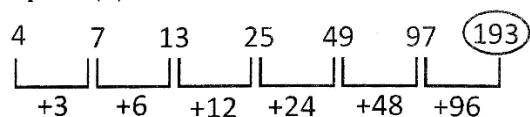


Series I: 7, 11, 15, 19, 21 (addition of 4)

Series II: 11, 9, 7, 5, 3 (subtraction of 2)

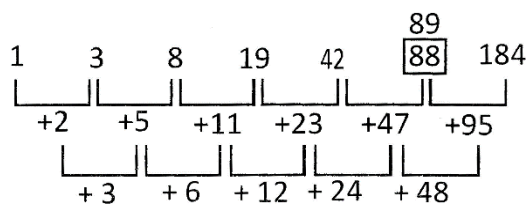
14. Explanation

Option (d) is correct.



15. Explanation

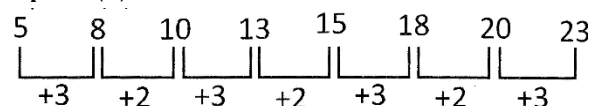
Option (e) is correct.



Hence, number 88 is wrong and should be replaced by 89.

16. Explanation

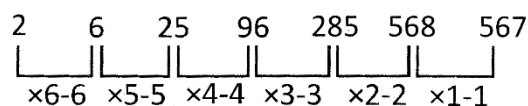
Option (b) is correct.



Hence number 12 is wrong and should be replaced by 13.

17. Explanation

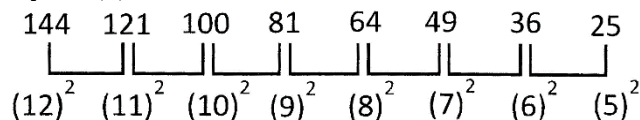
Option (b) is correct.



Hence number 24 is wrong and should be replaced by 25.

18. Explanation

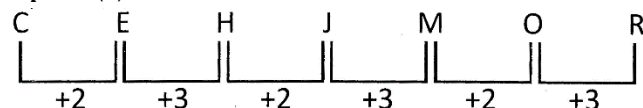
Option (e) is correct.



Hence, number 35 is wrong and should be replaced by 36.

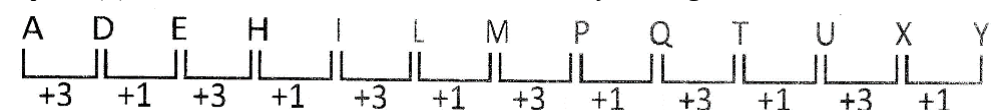
19. Explanation

Option (c) is correct. The letter are moved two and three steps forward alternately.



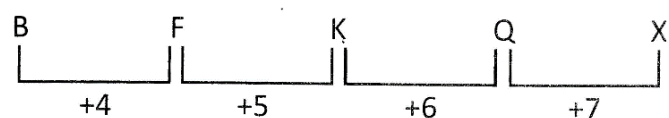
20. Explanation

Option (a) is correct because. The series is formed by moving the letter three and one steps forward alternately.



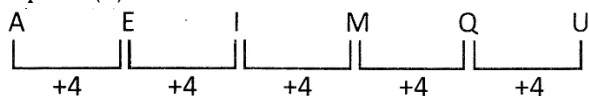
21. Explanation

Option (c) is correct. The difference between the letters in the series increases by one at each step.



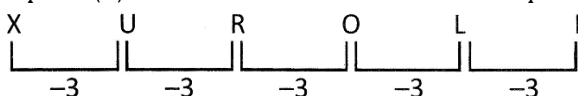
22. Explanation

Option (b) is correct because the letters in the series are moved four steps forward.



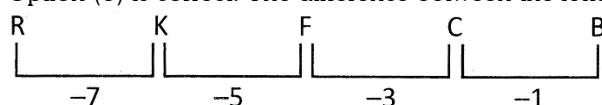
23. Explanation

Option (d) is correct. The series follows the sequence of moving the letters three steps in reverse order.



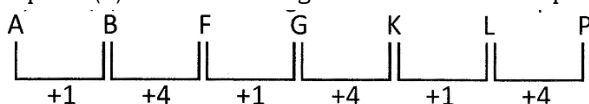
24. Explanation

Option (b) is correct. The difference between the letters is reduced by two at each step.



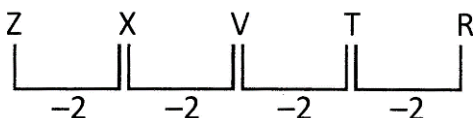
25. Explanation

Option (a) is correct. The given series follow the pattern as shown below.



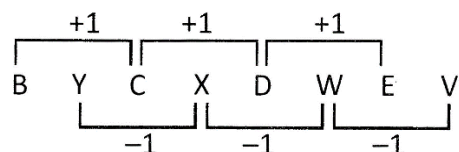
26. Explanation

Option (c) is correct. The letters in this series are moved two steps backward.



27. Explanation

Option (d) is correct. There are two alternate series.

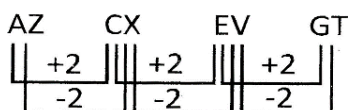


Series I: BCDE (natural order)

Series II: YXWV (reverse order)

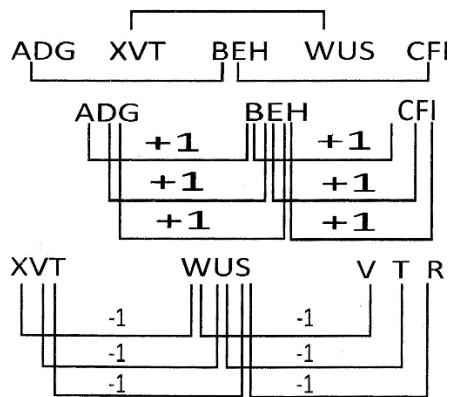
28. Explanation

Option (c) is correct. The letters in each group correspond to the letters in the next group in the manner +2, -2 respectively, i.e.,



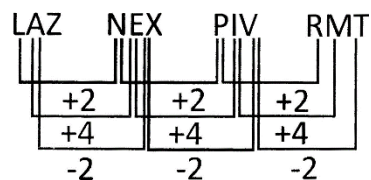
29. Explanation

Option (a) is correct. There are two alternate series



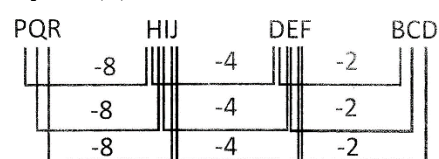
30. Explanation

Option (c) is correct. The three alphabet in one group correspond to the alphabet in the next group in the manner +2, +4, -2 respectively, i.e.,



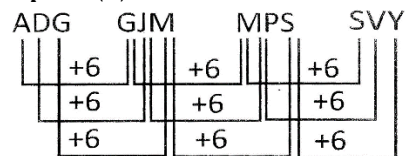
31. Explanation

Option (d) is correct. The letters in each group of alphabet are in the recession of -8, -4, -2 respectively.



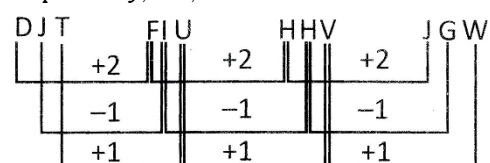
32. Explanation

Option (b) is correct. The letters in each group are moved six steps forward i.e.



33. Explanation

Option (d) is correct. The letters in one group correspond to the letters in the next group in the manner +2, -1, +1, respectively, i.e.,



34. Explanation

Option (b) is correct. The first and third letters are moved two steps forwards while the middle letter remains unchanged i.e.

NRA	PRC	RRE	TRG	VRI
+2	+2	+2	+2	
+2	+2	+2	+2	

35. Explanation

Option (b) is correct. The letters in one group correspond to the letters in the next group in the manner -2, +3, -3 respectively, i.e.,

ZDV	XGS	VJP	TMM
- 2	- 2	- 2	
+3	+3	+3	
- 3	- 3	- 3	

36. Explanation

Option (a) is correct.

1st series: A (B) C (DEFGH) I (J) K (LMNOP) Q

2nd series: 1 (+1) 2 (+5) 7 (+1) 8 (+5) 13

37. Explanation

Option (b) is correct.

1st series: J (IHGFE) D (CBAZ) Y (XWV) U (TS) R (Q) P

2nd series: $3(\times 1 + 2)$ $5(\times 2 + 3)$ $13(\times 3 + 4)$ $43(\times 4 + 5)$ $177(\times 5 + 6)$ 891

38. Explanation

Option (c) is correct.

1st series: S (TU) V (WX) Y (ZA) B (CD) E (FG) H

2nd series: $97(+3)$ $100(+5)$ $105(+7)$ $112(+11)$ $123(+13)$ 136

39. Explanation

Option (c) is correct.

The first two letters PQ are static. The third letter is in alphabetical order, beginning with R. The number series is in descending order beginning with 5.

40. Explanation

Option (d) is correct.

In this series, the letters remain the same: DEF

The subscript numbers follow this series:

111, 112, 122, 222, 223, 233, 333.....

41. Explanation

Option (b) is correct. Because the letters are the same, concentrate on the number series, which is simple, 2, 3, 4, 5, 6 series, and follows each letter in order.

42. Explanation

Option (b) is correct.

1st series: M (NO) P (QRST) U (VW) X (YZAB) C

2nd series: $2(\times 2 - 1)$ $3(\times 2 + 1)$ $7(\times 2 - 1)$ $13(\times 2 + 1)$ 27

43. Explanation

Option (d) is correct.

1st series: $1^3, 2^3, 3^3, 4^3, 5^3$

2nd series: A (B) C (DE) F (GHI) J (KLMN) O

44. Explanation

Option (a) is correct.

1st series: r (st) u (vwx) y (za) b (cde) f

2nd series: $5^3, 4^3, 3^3, 2^3, 1^3$