

ANSWER WITH EXPLANATION

[SET – 40]

1. (d)
 $\times 3 + 1, \times 4 + 2, \times 5 + 3 \dots$

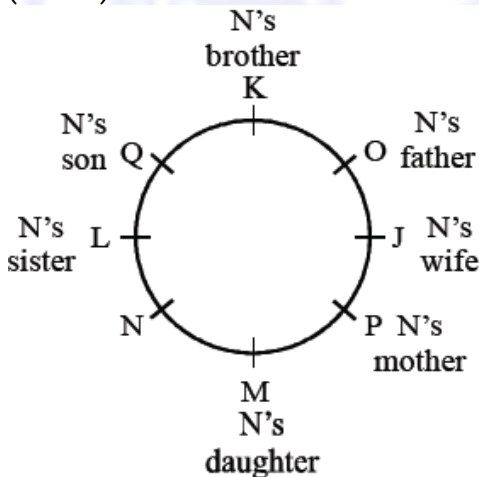
2. (b)
 $+ 4 \times 2, + 8 \times 3, + 12 \times 4$

3. (a)
 The series is based on combination of two series.
 $S_1 = +13, +26, +39 \dots$ and $S_2 = +7, +14, +21 \dots$

4. (d)
 $+36, +72, +144, +288 \dots$

5. (c)
 $(22)^2, (27)^2, (32)^2, (37)^2 \dots$

(6 – 10) :



6. (d) 7. (c) 8. (a) 9. (b) 10. (d)

11. (d)
 All possible representations of alphabets:

Matrix I

B = 04, 13, 22, 30, 41

C = 03, 12, 24, 31, 40

K = 01, 24, 20, 34, 42

N = 01, 11, 23, 32, 43

R = 02, 10, 21, 33, 44

Matrix II

A = 56, 68, 75, 87, 99

E = 59, 66, 77, 88, 95

I = 57, 65, 78, 89, 96

O = 55, 67, 76, 86, 98

U = 58, 69, 79, 85, 97

12. (d)
 All possible representations of alphabets:

Matrix I

B = 04, 13, 22, 30, 41

C = 03, 12, 24, 31, 40

K = 01, 24, 20, 34, 42

N = 01, 11, 23, 32, 43

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Matrix II

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13. (d)

14. (d)

The sequence given is a b b c a b b c a b b c a b b c

15. (a)

The sequence given is a b c a b c c a b c c c a b c c c
 c

16. (c)

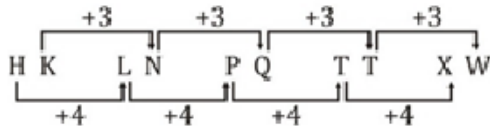
$E > A > C$

$B > D$

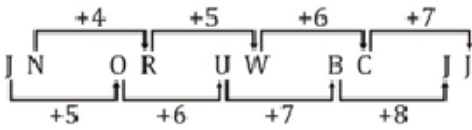
and A is in the second position

∴ E is the heaviest.

17. (a)



18. (b)



19. (d)

According to statements

$8 + \text{Nikhil} = \text{Rohan}$

From Option

$8 + 8 = 16$ year

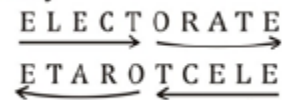
20. (d)

ORANGE is not derived from ORGANISATION.

21. (c)



Similarly



22. (b)

$8a + 3c + 24b + 12d + 19$

$= 8 \times 3 + 24 \div 12 - 19$

$= 7$

23. (b)

$2 \times 4 \times 6 = 48$, $3 \times 2 \times 8 = 48$ and $2 \times 5 \times 7 = 70$

Here + is replaced by 'x' to get required result.

24. (d)

Pattern is

$$\frac{28}{7} \times 5 = 20$$

$$\frac{84}{12} \times 5 = 35$$

$$\text{and } \frac{45}{9} \times 5 = \boxed{25}$$

25. (d)

[If any query about these questions please contact 8167092555 from 10 am to 6 pm]

G S C E