# Deepak Tirthyani

## India's No. 1 Reasoning Teacher

# SOLUTIONS
## Mock Test (66 to 70)

- ➢ More than 7 Year Teaching Experience in SSC, Railway and Banking Exams.
- ➢ Currently Teaching in Unacademy, Wifistudy YouTube Channel.
- ➢ More than 500 Million+ Views on Youtube and Unacademy Videos
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- ➢ Best Faculty Award in 2019-20.
- ➢ Given Highest Number of selections in SSC, Railway and Bank Exam Pan India.
- ➢ Qualified IBPS PO, SBI PO, in 2016-17.
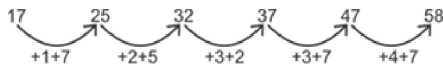- ➢ More than 1500+ videos on YouTube.

*Reasoning in My Blood*

**Reasoning by Deepak sir**
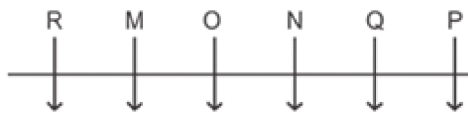
# www.deepaksir.com

**66 Mock Test**       **SOLUTION**

1. **(B) 58**



2. **(A) O is in between R and Q**



O is between R and Q

3. **(B)** (7 + 4) × (7 − 4) = 33
   (5 + 9) × (9 − 4) = 56
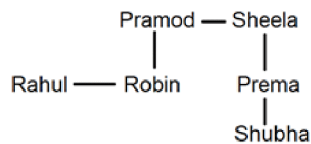   (2 + 3) × (3 − 2) = 5
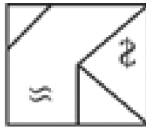
4. **(B)**



5. **(B) Wednesday**
   Dinesh was born on 29th September 1999. Day between 15th August and 29th September
   45 day = 6 weeks 3 days
   Sunday + 3 = Wednesday

6. **(D)**



   Shubha is nephew of Rahul

7. **(C)** 7, 4.5, 5.5, 12, ?, 393
   the pattern of the series.
   $7 \times \dfrac{1}{2} + 1 = 4.5$
   4.5 × 1 + 1 = 5.5
   5.5 × 2 + 1 = 12
   12 × 4 + 1 = **49**
   **49** × 8 + 1 = 393

8. **(A)** A : C = 3 : 1, B : A = 1 : 2
   A : B : C = 3 : 6 : 2



   11 — 18249
   1 — 1659
   2 — 3318
   Part of C = 3318

9. **(A) DRLUAHCK**
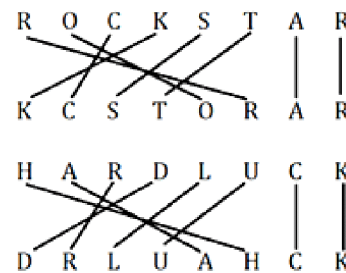


10. **(A) 4**
    Here,
    (84 : 7) may be written as 84 : $\dfrac{84}{8+4} = \dfrac{84}{12} = 7$
    Similarly 36 : ?
    $= 36 : \dfrac{36}{3+6} = \dfrac{36}{9} = 36 : \mathbf{4}$

11. **(C)** (4) Iambs      (2) Illampu
    (1) Illicit      (3) Illimani
    4, 2, 1, 3

12. **(C) Microscope**

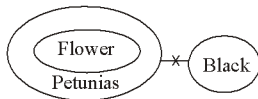13. **(B)** Weat's scientific name is - Triticum Aestivum
    Same way
    Mango scientific name is - Mangifera Indica.

14. (C) 12 : 1730 :: 25 : 15627 :: 18 : ?

    $(12)^3 = 1728$      $(25)^3 = 15625$

    $1728 + 2 = 1730$      $15625 + 2 = 15627$

    Similarly

    $(18)^3 = 5832$

    $5832 + 2 = $ **5834**

15. (D) Column I : $48 - 28 \rightarrow 20 \times 3 = 60$

    Column II: $71 - 65 \rightarrow 6 \times 18 = 108$

    Column III : $35 - 21 \rightarrow 14 \times 7 = 98$

16. (A)



    Both conclusion II follows.

17. (C) 43125

    4) Jingle     3) Jingling

    1) Journey   2) Judge      5) Judgement

18. (A) It is given, David Willey is older than Yuzvendra Chahal and younger than David Warner David Willey > Yuzvendra Chahal __ (1) David Willey is younger than David Warner It means David Warner > David Willey ___ (2) Yuzvendra Chahal Marcus and Shreyas Iyer is older than (Marcus and Shreyas Iyer) < Yuzvendra Chahal __ (3) Shreyas Iyer is older than Marcus It means Shreyas Iyer > Marcus ___ (4) On combination (1), (2), (3) and (4) ), David Warner > David Willey > Yuzvendra Chahal > Shreyas Iyer > Marcus Hence, Marcus is the youngest among them.

19. (C)

| Symbol | + | − | × | ÷ |
|--------|---|---|---|---|
| Meaning | × | + | ÷ | − |

    Using the proper symbols, we get

    $234 \div 9 + 12 \times 4$

    Now applying BODMAS rule,

    $234 \div 9 + 12 \times 4$

    $= 26 + 48 = 74$

    Hence, option A is the correct response.

20. (D) RCVKGPV

    Similarly,

    Thus, PATIENT can be written as RCvKGPV.

    Hence, option C is correct.

21. (A)



22. (C) E is the 5th alphabet in English; 52 = 25th alphabet is Y

    B is the second alphabet in English; 22 = 4th alphabet is D like that, A is the first alphabet in English, 12 = A is the first alphabet D is 4th alphabet in English, 42 = 16th alphabet P is So, the correct related letter is 'AP' Hence, option (C) is correct.

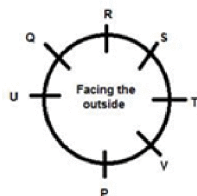23. (A) In this question, we show that –

    T sits second to the left of P. Q sits fourth to the right of T.
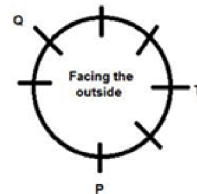


    Only two persons sit between P and S, who is an immediate neighbour of R.
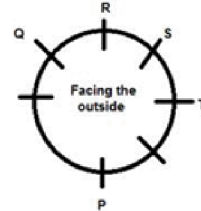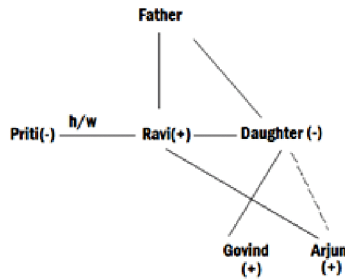


    T and S immediate neighbour to each other. U sits third to the left of S.



    V sits third to the left of Q and forth to the right of Q.
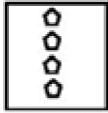
    So correct answer is option A.

24. (A)



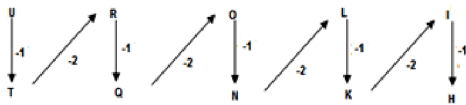We can show the given information in the following diagram:

From the above figure, it can be observed that the Ravi is the Maternal Uncle Arjun.

25. (C)



26. (C) IH

The series will be,



So ? = IH

So, the correct answer is option C.

27. (A) 224

The series will be,

Second number $-4 \times 4 \div 1 = 16$

Third number $-16 \times 5 \div 2 = 40$

Fourth number $-40 \times 6 \div 3 = 80$

Fifth number $-80 \times 7 \div 4 = 140$

Six number $-140 \times 8 \div 5 = ?$

$? = 28 \times 8$

$? = 224$

Hence, the correct answer is option A.

28. (A) U45X

Letter series

A+3->D, D+2 ->F

F+3->I, I+2 -> K

K+3->N, N+2 ->P

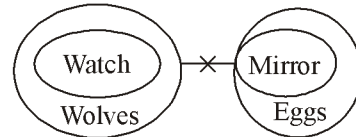P+3->S, S+2 ->U

U+3->X,

Number series

5+10 = 15

15+10=35

35+10 =45

Hence, the required answer is U45X

29. (B)



30. (B)



Only I, II and III follow.

**67 Mock Test**

# SOLUTION

1. **(B) Newton**
   The unit of Power is Watt.
   Similarly,
   The unit of Energy is Joule.
   Hence, the correct answer is Joule.
   Ampere is unit of Current,
   Newton is unit of Work and Pascal is unit of pressure.

2. **(A)**
   26   138   29   142   34   148   41
   +3    +5    +7
   +4    +6

3. **(D) 10, 22, 46, ?**
   10 + 12 = 22
   22 + 24 = 46
   46 + 48 = **94**
   Hence, '94' is the correct response.

4. **(A)**
   4   9   17   35   69   139
   ×2+1   ×2−1   ×2+1   ×2−1   ×2+1
   Logic : (×2 + 1, ×2 −1)

5. **(C)**
   49,   72,   118,   210,   394,   762,   1498
   +23   +46   +92   +184   +368   +736
   ×2   ×2   ×2   ×2   ×2

   The difference between numbers is
   +23 , +46 , +92 , +184 , +368 ,+736

6. **(B) 5 years**
   Let the son's age be X yrs
   Then Pandey's age will be: 4X
   After 10 years, their ages will be: X + 10 & 4X + 10 respectively.
   But the question is saying, his age would be twice.
   Therefore,

7. **(B) 81**
   N+O+I+D+A=14+15+9+4+1=43
   H+O+W+R+A+H=8+15+23+18+1+8=73
   K+A+N+P+U+R=11+1+14+16+21+18= 81
   Hence, the correct option is B.

8. **(C)** There are two series in the given question,
   For part one of series –
   9 – 6 = 3
   12 – 9 = 3
   15 – 12 = 3
   18 – 15 = 3
   For part two of series –
   7 – 1 = 6
   13 – 7 = 6
   ? – 13 = 6
   ? = 6 + 13 = **19**
   Hence, the correct answer is option C.

9. **(C)** Only I follows.

10. **(D)** 6 (Because 6 is opposite of 4)

11. **(C)** The series will be like this,
    78 - 65 = 13
    95 - 78 = 17
    114 - 95 = 19
    ? - 114 = 23
    ? = 23 + 114
    ? = 137
    The difference between the numbers is the ascending order of the prime numbers.
    Hence, option C is the correct answer.

$2(X + 10) = 4X + 10$
So, X comes out to be 5 yrs which is the present age of his son.
Hence, option B is correct.

12. (A) 5 * 4 * 9 is operated as first two numbers are written as it is, but third or last no. is squared.

54 and square of 9 makes 5481

3 * 7 * 4= 3716

8 * 5 * 3=859

Hence, option A is the correct response.

13. (B) TENURE

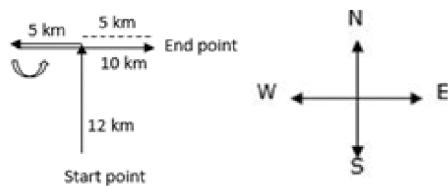TENURE is the only word that can be formed from the word EXPENDITURE.

Hence, option B is the correct answer..

14. (D) Thus the missing term in the series is D.

As,

$$B \xrightarrow{+4} F \xrightarrow{+6} L \xrightarrow{+8} T \xrightarrow{+10} D \xrightarrow{+12} P$$

15. (B) 13 KM



Thus applying Pythagoras theorem distance between initial and final position $\sqrt{5^2 + 12^2} = 13$ km is .

Hence, the correct option is B.

16. (B)



Similarly



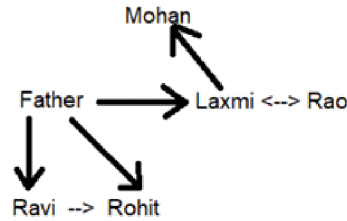Other are not follow same pattern except option (B)

17. (A) In row I: 138 ÷ 6 = 23

In row III: 84 ÷ 7 = 12

Similarly,

In row II: 117 ÷ 13 = 9

Thus missing number is 9.

18. (B) Rao is the uncle of Rohit and Ravi. Therefore, Mohan is the Grandfather of Ravi.



Hence, option B is the correct response.

19. (B) Cousin

Maya said, "My mother is the sister of Ranjeet's brother".

Therefore Maya's mother is a sister of Ranjeet.

So, Ranjeet will be Maternal uncle of Maya.

Hence, option B is the right answer.

20. (B) In the series, we can see that the first letters are +3 to each other.

Therefore the next letter should be M +3 = P

G +3 = J => J + 3 => M => M+3 =>P

O + 3 = R=> R + 3 =U => U + 3 =>X

N +3 =Q => Q + 3 =T => T + 3 =>W

Hence, option B is the correct answer.

21. (C) All follow

22. (D)

| Class | Person | Colour |
|---|---|---|
| IV | R | Blue |
| IV | W | Red |
| IV | Q | Yellow |
| V | S | White |
| V | V | Pink |
| VI | P | Black |
| VI | T | Green |

R - Blue - IV

23. (C)

| Class | Person | Colour |
|---|---|---|
| IV | R | Blue |
| IV | W | Red |
| IV | Q | Yellow |
| V | S | White |
| V | V | Pink |
| VI | P | Black |
| VI | T | Green |

S - White - V

24. (B) Given word is: PROSE**C**UTE
    Its $2^{nd}$, $4^{th}$, $6^{th}$ and $9^{th}$ letters are R, S, C, E
    No meaningful English word is formed with these letters.

25. (B)

```
B K J      X E B      T Y T      P S L
  └──┐      └┬┐        └┬┐        └──┐
    -4        -4         -4
  └────┐    └────┐    └────┐
     -6         -6         -6
  └──────┐  └──────┐  └──────┐
       -8         -8         -8
```
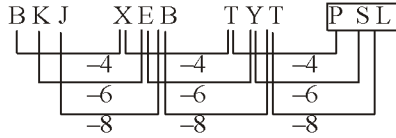
    Logic : (-4, -6, -8)

26. (B)
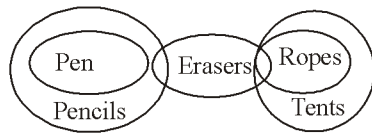


    Only IV follows.

27. (B) Fig. I.    $45 + 25 + 35 + 30 = 135$
               $135 \div 5 = 27$
       Fig. II.   $60 + 30 + 40 + 20 = 150$
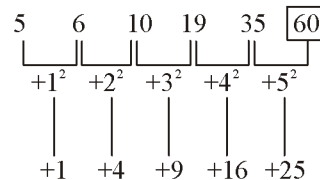               $150 \div 5 = 30$
       Similarly

Fig. III.   $40 + 25 + 65 + 35 = 165$
          $165 \div 5 = \mathbf{33}$

28. (D)  $9 - 90$                $11 - 132$
         $(9)^2 + 9 = 90$        $(11)^2 + 11 = 132$
         $81 + 9 = 90$           $121 + 11 = 132$
         $6 - 42$                $12 - 154$
         $(6)^2 + 6 = 42$        $(12)^2 + 12 = 154$
         $36 + 6 = 42$           $144 + 12 = 154$
         $42 = 42$               $156 \neq 154$

29. (C)

```
S   R   P      M   L   J
└─┐ └─┐        └─┐ └─┐
 -1  -2          -1  -2

J   H   F      E   D   B
└─┐ └─┐        └─┐ └─┐
 -2  -2          -1  -2
```

30. (C)

```
5    6    10   19   35   [60]
└─┐  └─┐  └─┐  └─┐  └─┐
 +1² +2² +3² +4² +5²
  │    │    │    │    │
 +1   +4   +9   +16  +25
```

**68 Mock Test**

# SOLUTION

1.  (C) 616
    121 x 2 + 11 = 253
    121 x 3 + 11 = 374
    121 x 4 + 11 = 495
    121 x 5 + 11 = 616
    Hence, option C is the correct response.

2.  (C) 5690
    T→5, O→6, A→3, S→4, T→5.
    T→5, R→9, A→3, I→1, N→0.
    From the above codes of letters, the code for 'TORN' is
    T = 5
    O = 6
    R = 9
    N = 0
    Hence, option C is the right answer.

3.  (D) 10
    The series will be,

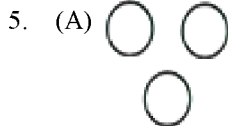    | 26 | 22 | 20 | 16 | 14 | 10 |
    |----|----|----|----|----|----|

    -4  -2  -4  -2  -4
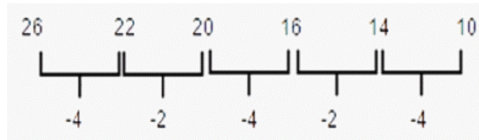
    Hence, option D is the correct response.

4.  (D)
    Word　　　　　　　　　: P O E T I C A L
    After rearrangement : A C E I L O P T

    So after rearrangement only E's position will remain same.

5.  (A)

6.  (B) cbcdc
    For option B, the series becomes,
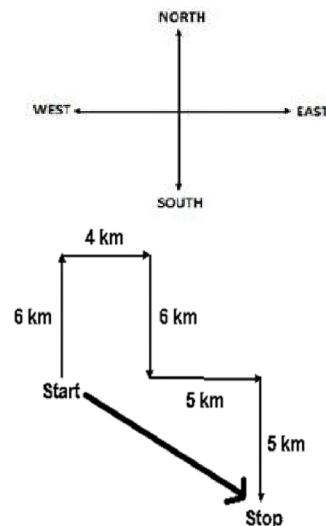    d<u>cc</u>b/d<u>cc</u>b/d<u>cc</u>b
    Hence 'cbcdc' is the correct set of letters.

7.  (C) South-East
    In this question we see that – draw first Geeta walked 6 km in the north direction. took a right turn and covered 4 kms. again turned to her right and covered 6 kms. then took a left turn and traveled 5 km and took a right turn and covered 5 km. Stopped doing it.
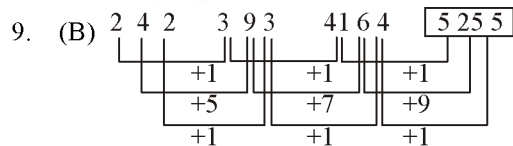    volume_up
    content_copy
    share
    star_border

    

    Observing the above data, it can be found that the direction from the starting point to the end point is South-East. Hence, option C is the correct answer.
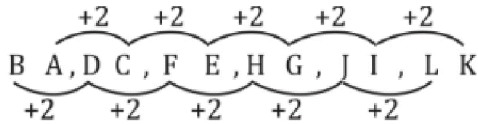
8.  (D)

9.  (B)
    2  4  2　　　3  9 3　　　4 1 6 4　　　5 25 5
    +1　　　　　　+1　　　　　+1
    +5　　　　　　+7　　　　　+9
    +1　　　　　　+1　　　　　+1

10. (B)



11. (D) ×, +, -

Given equation:

68 ÷ 8 @ 2 # 16 × 3 ÷ 8 $ 7 = 16
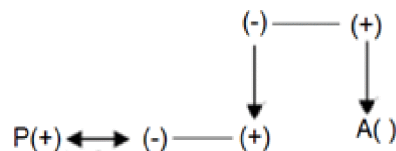
So, if place ×, + and -, we get,

68 ÷ 8 × 2 + 16 × 3 ÷ 8 - 7 = 16

Hence, option d.

12. (B) Wife

Family Tree:



Sister of husband of mother of A is wife of P's son's mother's brother's father.

Hence, option b.

PREVIOUS

13. (A) 3141518202125

All the letters of the given words are written in increasing order of alphabets (alphabetical order) and then their corresponding values are written.
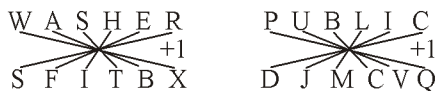
HANDLE – ADEHLN – 14581214

PREFECT – CEEFPRT – 3556161820

Similarly, COUNTRY – CNORTUY - 3141518202125

Hence, option a.

PREVIOUS

14. (C)



Similarly



Logic : (written in reverse order and add + 1 each letter)

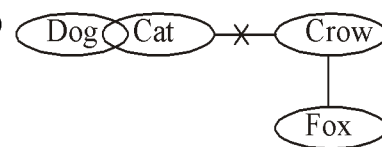15. (A) Total student = 45

Rohan's postion (passed student's)

TOP - 16th

Bottom - 14th

Passed student = 16 + 14 – 1 = 29

Total failed student = 45 – 29

= **16** failed student.

16. (D)



None follows.

17. (D) Given series

D6N, I10P, N14R,? , X22V

So, D + 5 = I, I + 5 = N, N + 5 = S, S + 5 = X

6 + 4 = 10, 10 + 4 = 14, 14 + 4 = 18, 18 + 4 = 22

N + 2 = P, P + 2 = R, R + 2 = T, T + 2 = V

Hence, option d.

PREVIOUS

18. (C) (23, 11, 68)

Given set (35, 17, 104)

(17 × 2) + 1 = 35, (35 × 3) – 1 = 104

All except option (c), in which

(11 × 2) + 1 = 23, (23 × 3) – 1 = 68

Hence, option c.

19. (A)

| 5 | 2 | 8 |
|---|---|---|
| 4 | 3 | 1 |
| 3 | 6 | 5 |
| 17 | 20 | ? |

The pattern is 3 × 4 + 5 = 17, 6 × 3 + 2 = 20, 5 × 1 + 8 = 13

Hence, option (A).

20. (B) If + denotes -, ÷ denotes +, - denotes × and
× denotes ÷,
$17 ÷ 16 – 3 × 4 + 7 – 3 ÷ 6 – 7 × 2 = ?$ means
$17 + 16 × 3 ÷ 4 - 7 × 3 + 6 × 7 ÷ 2 = 29$
Hence, option (B).
PREVIOUS

21. (B) The final seating arrangement is given below:

| T | S | W | U | V | Q | R | P |
|---|---|---|---|---|---|---|---|

Five persons sit between T and R.
Hence, option b.

22 (D)

| T | S | W | U | V | Q | R | P |
|---|---|---|---|---|---|---|---|

Q is 3$^{rd}$ to the right of W.

23. (A) PATIENT
The word "PATIENT" can't be formed from the
word "PERMANENTLY" because there is no "I"
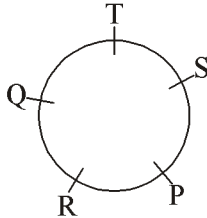in the given word.
Hence, option a.

24. (B) $(26)^2 = 676$
$(22)^2 = 484$
$(28)^2 = 784$
$(24)^2 ≠ 567 = $ **576** is correct

25. (C)



P is sitting at the second place to the left of 'T'.

26. (D) As, R sits 2$^{nd}$ to the right of P. Neither Q

nor T sits to the left of R. S sits 2$^{nd}$ to the left of
Q, so

| P | S | R | Q | T |
|---|---|---|---|---|

3 persons sit between P and T.
Hence, option d.
PREVIOUS

27. (B) 8631745
8 is written as T
6 is written as R
3 is written as A
1 is written as I
7 is written as N
4 is written as E
5 is written as D
So 8631745 is written as TRAINED.

28. (A) RESPETCED
First four and the last four letters are written in
reverse order, so the code for RESPETCED is
PSEREDECT.
Hence, option a.

29. (A) We find answer with help of II$^{nd}$ statement
3, 4, 2 are common. A, D, B

6 ③ ② ④ - Ⓐ Ⓓ F Ⓑ
② ④ 5 ③ - Ⓐ Ⓑ C Ⓓ

3, 4, 2 are common. A, D, B
6 → F, 5 → C
**56 code is FC**

30. (B) In the given question, the pattern followed
is

**69 Mock Test**

# SOLUTION

1. (A) V
   Logic:
   D + 3 = G
   G + 4 = K
   K + 5 = P
   P + 6 = V
   Hence, the correct answer is option (a)

2. (C) Row I.    $(7×3)×(7–3) = 84$
                     $21×4 = 84$
       Row II. $(5 × 4) × (5 – 4) = 20$
                    $20 × 1 = 20$
       Similarly   $(6 × 9) × (9 – 6) = ?$
                    $54 × 3 = ?$
                    **162 = ?**

3. (B) arjp
   Inserting letters of option (B) we get,
   apjrd/apjrd/apjrd

4. (D) Horizontal lines = 4,
   Verticle lines = 7
   7 + 4 = 11
   We need 11 straight line to make the figure.

5. (A) Horizontal lines = 7
   Verticle lines = 6
   Thus there are 7 + 6 = 13
   13 Straight lines in the figure

6. (B) ÷, –
   According to the question,
   If we interchange ÷ and – sign, the equation becomes correct.
   $1.5 + 8 ×  9 ÷ 16 – 2$
   $1.5 + 4.5 – 2$
   $6- 2 = 4$
   Hence, option B is correct answer.

7. (A) The pattern is:
   $13^3 = 2197$
   $14^2 = 196$
   $15^3 = 3375$
   $16^2 = 256$
   $17^3 = \mathbf{4913}$
   $18^2 = 324$
   Hence, option A is correct answer.

8. (A) HPY
   H + 8 = P, P + 9 = Y
   A + 8 = I, I + 8 = Q
   G + 8 = O, O + 8 = W
   D + 8 = L, L + 8 = T
   Hence, the correct option is A.

9. (B) Given time
        8 : 45 : 30 - mirror time
        Actual time = 11 : 59 : 60
                   – 8 : 45 : 30
        Actual time = **3 : 14 : 30**

10. (B) Great Granddaughter
    In this question, we state that
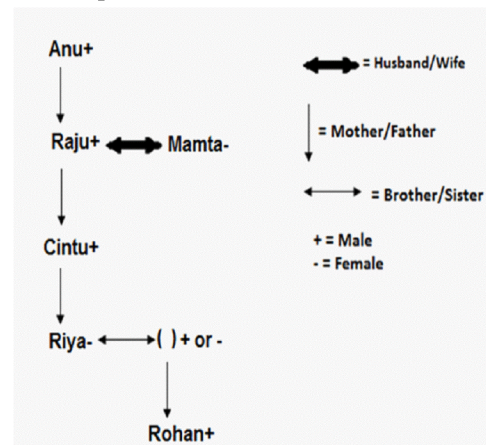
    

    Riya is Anu's great-granddaughter.
    Hence, option B is the correct answer.

11. (B) JK

As,

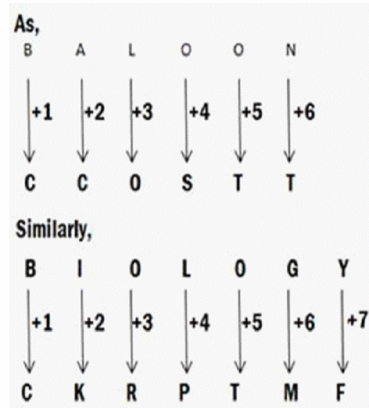I+3 = L

J+3 = M

Similarly,

G+3 = J

H+3 = K

Hence, option B is the correct response.

12. (A) CKRPTMF



Hence, option A is the right answer.

13. (D) $4^3 + 5^3 = 64 + 125$

$\qquad\qquad = 189 + 20, (4 \times 5) = 20$

$\qquad\qquad = 209$

$\qquad 6^3 + 7^3 = 216 + 343$

$\qquad\qquad = 559 + 42, (6 \times 7) = 42$

$\qquad\qquad = 601$

$\qquad 8^3 + 2^3 = 512 + 8$

$\qquad\qquad = 520 + 16, (8 \times 2) = 16$

$\qquad\qquad \mathbf{= 536}$

14. (A) 36 : 25 : 100 : ?

$\qquad 6^2 = 36$

$\qquad (6-1)^2 = 5^2 = 25$
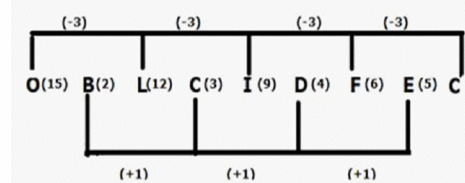
$\qquad$ Same as

$\qquad (10)^2 = 100$

$\qquad (10-1)^2 = (9)^2 = \mathbf{81}$

15. (B)



16. (C)



Hence, option C is the correct answer.

17. (C) 27 year

Suppose, Ait of Amit = x

Age of Suvarna = y

According to the question,

x + y = 61 (on 1 January 2015)

y = x + 3 (as given in question)

y = x + 3 x + x + 3 = 61

x = 29 Therefore, y = 32

Therefore, the age of Suvarna to 1 year 2010 (5 years ago) 32-5 = 27

The correct answer is 27

Therefore, the correct answer option is C.

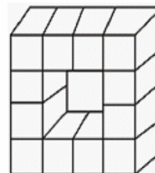18. (D) 128

Logic: addition of Continuous prime number.



Hence, option D is the correct answer.

19. (B)



On the basis of above given figure , we can see that

Count the numbers of cubes in given figure = 12

Hence , There are 12 cubes.

20. (A)



Same as

21. (B) It follows the following logic

$5 * 9 = (5^2 + 9^2 + 5 \times 9) = 25 + 81 + 45 = 151$
$13 * 7 = (13^2 + 7^2 + 13 \times 7) = 169 + 49 + 91 = 309$
$6 * 11 = (6^2 + 11^2 + 6 \times 11) = 36 + 121 + 66 = 223$
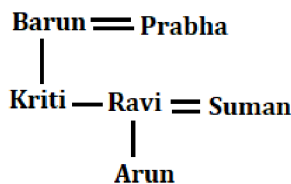$8 * 12 = (8^2 + 12^2 + 8 \times 12) = 64 + 144 + 96 = 304$

22. (A) As, given in the Venn diagram
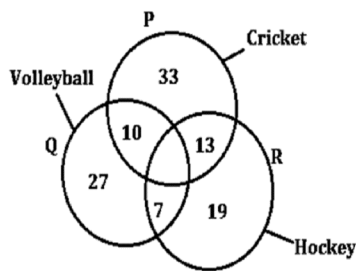


Persons play only Volleyball = 27

23. (C) Sister-in-law

From above information, we can make a family chart as



So, Suman is the sister-in-law of Kriti.

24. (B) As, VAN $\rightarrow$ 22 + 1 +14 = 37 and 3 ×7=21
IRON $\rightarrow$ 9 + 18 + 15 + 14 = 56 and 5 × 6 = 30
Similarly, SLEEP $\rightarrow$ 19 + 12 + 5 + 5 + 16 = 57
and 5 × 7 = **35**

25. (C) 608190407050
Here, letters are coded according to the reverse of number which indicates their places in alphabetical order.
As,
M $\rightarrow$13 Coded as 31,
O$\rightarrow$15 coded as 51,
B$\rightarrow$02 coded as 20,
I$\rightarrow$09 coded as 90,
L$\rightarrow$12 coded as 21 and

E$\rightarrow$05 coded as 50
Similarly,
FRIDGE is coded as **608190407050**

26. (A) When 5 and 11 interchanged their positions then, the equation 968 ÷ 5 × 2 − 76 + 11 = 105
Become
968 ÷ 11 × 2 − 76 + 5 = 88 × 2 − 76 + 5 = 176 − 76 + 5 = 181 − 76 = 105
So, L.H.S = R.H.S

27. (B)
Here,
A_BC_/ABBC_/ABB_D/AB_ __D
So, the series is:
A BBC D/ABBC D/ABB CD/AB BCD

28. (B) The given figure is embedded in
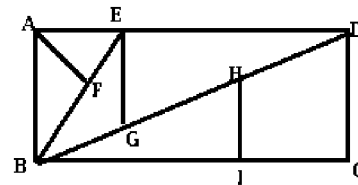


29. (C) XGOGTSL
Here, coding is done according as



Similarly, WELCOME is coded as



30. (A) 9
Total number of triangles in the given figure



Are ABE, ABF, AFE, EBG, EGD, BED, BCD, BIH, ABD
So, the total number of triangles is 9.

**70 Mock Test**

# SOLUTION

1. (B) Gold (Diamond is called Gold)

2. (C)

```
P  A  L  E     E  A  R  T  H
|  |  |  |     |  |  |  |  |
5  2  9  3     3  2  6  8  1
```
Similarly
```
P  E  A  R  L
|  |  |  |  |
5  3  2  6  9
```
Logic : put common coded value)

3. (D)

Given - (lee) pin (tee) - (Always) (Keep) [Smiling]

Statement-I - (tee) lut (lee) - (Always) (Keep) left.

Statement-II - dee [pin] - Rose [Smiling]

If the data in statement I or II are sufficient to answer the question.

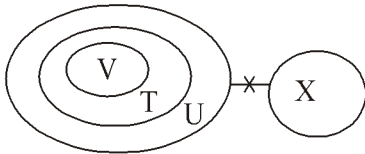4. (A) NEATLY ('E' is not given the word)

5. (A) B **D** E F C A

'D' is immidiate right of 'B'

6. (C) Dhruv's Birthday on sunday-28$^{th}$ may

28$^{th}$ may - to - 19$^{th}$ oct

$$\frac{3+2+3+3+2+19}{7} = \frac{32}{7} = 4 \text{ odd day}$$

Sunday + 4 odd day = Thursday - Sahil's Birthday

7. (A)

Only I follow.

8. (D) Mountain : Valley :: Genius : ?

mountain have valley (situated)

Same as

Genius have contain (inlteligence).

9. (D) Priya's age = 3 × Son's age

Priya's - 3 Son's = 0

after 10 year

Priya's + 10 = 2 (Son's + 10)

Priya's − 2 Son's = 10

Comparision -     Priya's - 2 son's = 10

                  Priya's - 3 son's = 0

                  Son = 10 year

Priya = 3 × 10 = 30 year
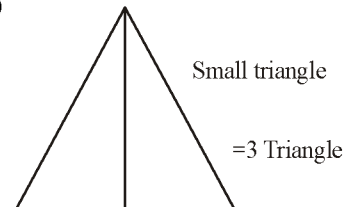
10. (A) (Not divisible by = 27)

Other are divisible by 27

11. (B)

```
   +4          +4          +4          +4
┌──────┐   ┌──────┐   ┌──────┐   ┌──────┐
 B7E,       F19M,      J21K,      N20F
└──────┘   └──────┘   └──────┘   └──────┘
B+E=7      6+13=19   10+11=21+4  14+6=20
2+5=7      19=19      21=21      20=20
7=7
```

12. (B)

```
D,  P,  G              E,  Y,  H
      (4)²                   (5)²
       +3                     +3
```
D = 4, 4² = 16 = P        E = 5, 5² = 25 = Y

```
C,  I,  F              B,  F,  F
      (3)²                   (2)²
       +3                     +4
```
C = 3, 3² = 9 = I        B = 2, 2² = 4 ≠ F

13. (C)

Small triangle

=3 Triangle

No. of small triangle in given figure = 8
= 8 × 3 = 24
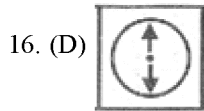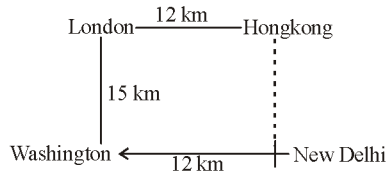Large = 2
Total = 26

14. (C) Sonia > Heena > Mona

Rahul shortest dmong then. | Rahul shortest Among then.
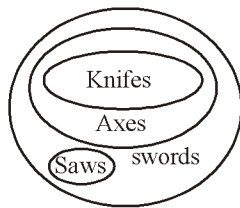
15. (D) Only conclusion I follow.

16. (D) 

17. (D)

London —— 12 km —— Hongkong

15 km

Washington ← 12 km —— New Delhi

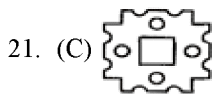Hongkong's south direction of delhi.

18. (D)



Knifes
Axes
Saws   swords

None of the follow.

19. (A) Physical exercise is very helpful for ensuring a health life. (True)

20. (B) 16 : 9 :: 37 : [27]    45 : 36

   −(1+6)      −(3+7)      −(4+5)

21. (C) 

22. (D) Statement I- Manish's age + 30 = father's age

Statement II - Manish's sister age + 25 = father age born 1980

Then manish age = 1980 + 5 = 1985 = was born if the data in statement I and II are sufficient to answer the question.

23. (A)

A    E    I    [M]    Q    U

   +4   +4   +4   +4   +4

24. (D)  (A) DRE —— RED

(B) LUBE —— BLUE

(C) GROANE —— ORANGE

(D) RGENE —— Not making any meaning ful it is odd one.

25. (C)

B E C D    F I G H    K I G H    [Q W S U]    X A Y Z

   +4          +5          +6          +7
   +4          +5          +6          +7
   +4          +5          +6          +7
   +4          +5          +6          +7

26. (C)

O    1    5    14    30    [55]

   $+1^2$  $+2^2$  $+3^2$  $+4^2$  $+5^2$

27. (D) 
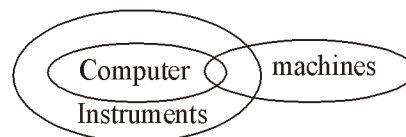
28. (B)  7867 is an odd four-digits prime number following 7866 and preceding 7868.

In scientific notation, it is written as $7.867 \times 10^3$.

The sum of its digits is 28.

It has a total of 1 prime factor and 2 positive divisors. There are 7866 positive integers (up to 7867) that are relatively prime to 7867.

29. (B)



Computer   machines
Instruments

Only conclusion II follow.

30. (B)

B A C H E L O R

| | | | | | | |

S N M D I B B A

Similarly

C O H E S I O N

| | | | | | | |

O N J R F G P B