

## Deepak Tirthyani

India's No. 1 Reasoning Teacher



# **SOLUTIONS**Mock Test (26 to 30)

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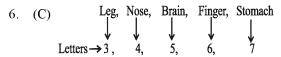
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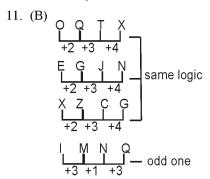
- 1. (B) Mount Everst (other three are india's highest peak) Nepal's highest Peak
- 2. (B) 3371 (are not a. Perfect cube) other theree are a perfect cube
- 3. (B) AWLB = 1+24+12+2 = 39 AXJC = 1+25+10+3 = 39 AWMB = 1+23+13+2 = 39 AZID = 1+26+9+4 = 40-odd
- (D) Potala Palace → (Situated in china) other are indi's famous sites.
- 5. (B) 111 is not a prime number.



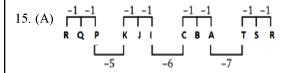
- 7. (B) Nepal is a land locked country
- 8. (C) 23:6, 54:20, 33:9  $2\times 3=6$ ,  $5\times 4=20$ ,  $3\times 3=9$  91:81=9x $9\times 1=9=81$
- 9. (A) (a) Paper: Pencil
  - (b) Head : cap (c) Ink : Inkpot
  - (d) Present: Wrapper

Option (a) Paper: Pencil are different from rest of three.

10. (C) other three divided by 3 and 124 are not divisible by 3.



- 12. (C)  $6 \times 3 = 18$   $7 \times 2 = 14$   $3 \times 5 = 15$  $1 \times 9 = 09 \neq 19$
- 13. (C) Aktar 5 letters
  Farhan 6 letters
  Rastogi 7 letters
  Silencer 8 letters
- 14. (A) 12345

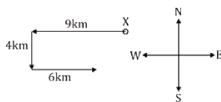


- 16. (A) 7-2+4 = 36  $(7+2) \times 4 = 36$  10-5+2 = 30  $(10+5)\times 2 = 30$  20-5+6 = ? $(20+5)\times 6 = 150$
- 17. (D) P+Q×R-S



Data inadequate (डाटा अपर्याप्त है।)

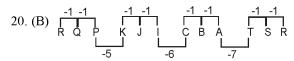
18. (B)



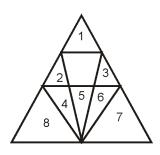
He is in south-west direction from x

19. (A) Multiplying by 2.5

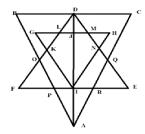
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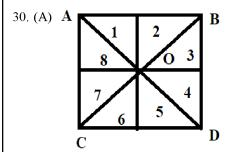
- 21. (B) 2 + 4 = 8,  $8 \times 7 = 56$ 5 + 2 = 7,  $7 \times 10 = 70$ 5 + 6 = 11,  $11 \times 20 = 220$
- 22. (C)  $(11 \times 3) = 33 = 33$  (in reverse digits)  $(9 \times 3) = 27 = 72$  (in reverse digits)  $(17 \times 5) = 85 = 58$  (in reverse digits)
- 23. (C) Difference of 4, 7, 10, 13 in the series.
- 24. (D) The total number of triangle is according to figure is 2+3+3+2+8=18



- 25. (A) In the figure the simplest Triangles are GLK, DLJ, DJM,HMN,QRE,IRA,IPA, and FPO is the 8 triangle
  - and another is BDO, CDQ, DLM, PRA, KFI, NEI, HЛ, GЛ, DKI, and DNI is the 10 triangle and another is DIE, DFI, DOA, DQA, and GHI is the 5 triangle
  - and DCA, DBA is the 2 triangle and DEF and ABC so that according to the figure the total no. of triangle is 8+10+5+2+1+1=27



- 26. (A) The simplest triangle is shown in figure is 12 and another is IBO, BDO, DGO, GIO, ABO, CBD, DEO, IBD, BDG, DGI, GIB, ACO and COE and ACE is the total no of traingle are 12+14=26
- 27. (A) 44 Triangles, 10 squares
- 28. (D) None of these
- 29. (D) The figure shown the no. of triangle is in the diagram so that total no. of triangle is 8+8+8+4=28



In the figure the 8 triangle is shown easily and another is COD, DOB, BOA, AOC, ACD, BDC, ABC, ABD so that total no. of triangle is 8+8=16

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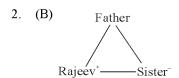
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1. (B) 6, 12, 20, 30, ?, 56, 72 6 8 10 12 14 16



That girl sister of Rajeev.

- 3. (D) Priyanka, Mary, Reyan, Sunil, Asha Priyanka is standing first in the line.
- 4. (C) Shankar > Farhan > Mohan > Kanan > Rohan Shankar is tallest among then.

 $68 = 17 \times 4$ 

 $80 = 20 \times 4$  - odd one (other are odd multiples of 4, except  $80 \cdot 92 = 23 \times 4$ 

- 6. (D) Cow = 41, =3+15+23 = 41, Goat = 43, Same as DOG = ?=7+15+1+20 = 43 Dog = ? = 4 + 15 + 7 = 26
- 7. **(B)**

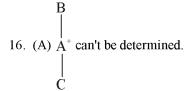


- 8. (B) Decending order 466, 4655, 4565, 4465, 4455 middle no. - 4565
- 9. (A) Second from last
- 10. (B) CCITRKE After arrange the word CRICKET Fifth from the left is 'I'.
- 11. (B) Simple, singer, single sinister. Third one - single

- 12. (A) Father (because sister is called father.)
- 13. (C) Tanya Dhwani Manali Urja Ruhi manali is sitting on the row. (They by are facing south)
- 14. (B) Father-x Son-y 4y = x x - 4y = 0, other 5 years 3(y+5) = x+5 3y+15 = x+5 x - 3y = 10father age  $x = 4 \times y$

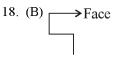
 $x = 4 \times 10$ 

15. (A) 2011 - Christmas day = Sunday2012 - Christmas day = Tuesday(because 2012 is a leap year)

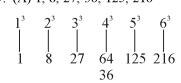


Son father age = 10, 40

17. (B) Ostrich, crow, pigeon, sparrow. ostrich is from of egg (other are birds).

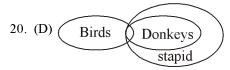


July 15 face 19. (A) 1, 8, 27, 36, 125, 216



36 is odd one other are perfect cube.

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Only IInd conclusion are follow.

- 21. (D) (A)  $3 \times 0.4 + 5 \times 0.4 0.8 = 2.4$ 
  - (B)  $0.3 \times 2 \times 8 12 \times 0.2 = 2.4$
  - (C)  $4 \times 0.3 + 6 \times 0.2 = 2.4$
  - (D)  $4 \times 0.4 + 0.6 \times 5 \times 0.2 = 2.2$

option D is odd one.

- 22. (C) Both Assumption are follow.

  Because both full fill all condition given in statement.
- 23. (C) figure image single-10+double-3+large-2= total triangle=15
- 24. (B) Water = 55

$$23 - 1 + 20 - 5 + 18 = 61 - 6 = 55$$
,

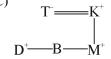
store = 1

$$19 - 20 + 15 - 18 + 5 = 39 - 38 = 1$$

same as FORCE = ?

$$6 - 15 + 18 - 3 + 5 = 29 - 18 = 11$$

25. (C)



'B' is sonor davghten of T.



same as





- 28. (D) 6291:21:2413:?here  $6 \times 2 + 9 \times 1 = 21$

Point 'O' 10 m for and south direction in respect to point 'M'.

30. (D) Pinki > Meera

Jyoti > Sadhana > Meera,

Both statement are not sufficient to give answer.

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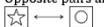


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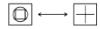




1. (A) Opposite pairs are







- 2. (D) The contents of the main figure rotate through 45°CW.
- 3. (C) Both dog and cat are animals
- 4. (A) 17 squares
- 5. (B)  $\frac{9 \times 4}{6} = 6$  $\frac{12 \times 7}{4} = 21$  $\frac{15 \times 19}{3} = 95$
- 6. (C) A
- 7. (A) 248 217 188 165 ? 129 116 -31 -29 -23 -19 -17 -13
- 8. (D)  $1^3+1=2$   $2^3+2=10$   $3^3+3=30$   $4^3+4=68$  $5^3+5=130$
- 9. (D) Gopal's rank from last = 9
  - $\therefore$  Amit's rank from last = 9+7=16
  - $\therefore$  Amit's rank from the start = 36 16 + 1 = 21
- 10. (A) Naman = 5 + Akash

& Naman = Nitin -4

 $\therefore$  5 + Akash = Nitin – 4

5 + Ravi = Nitin - 4

{Akash & Ravi are twins}

- 9 + Ravi = Nitin
- :. Nitin is 9 years older than Ravi.

11. (C) 15th March → Thursday

Number of days after 15th March to 16th Aug

$$= 16 + 30 + 31 + 30 + 31 + 16 = 154$$

- ∴ No. of odd days =  $\frac{154}{7}$  = 0 odd days
- : Day on 16th Aug = Thursday + 0
- = Thursday
- 12. (A) 25+60+35+70=190

110 is not possible

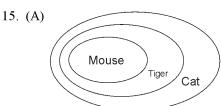
13. (A) Letters in reverse order

So, D 
$$\rightarrow$$
 23, E  $\rightarrow$  22, N  $\rightarrow$  13

$$23 + 22 + 13 = 58$$

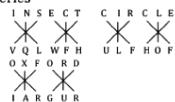
14. (C) (15×2)+(7×1)-36

$$=30+7-36=1$$



Only II follow.

16. (C) +3 series



17. (A) Ram 20 km 25 km

He is facing the east direction.

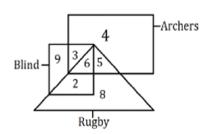
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- 18. (C) 78, 34, 65, 24, 99 ↓ ↓ ↓ ↓ ↓ S T A G E
- 19. (C) Father Mother

  | Man Lady -

Lady is the wife of the man.

- 20. (C) Number of triangles are 9.
- 21. (C)
- 22. (A) Z is opposite to C
- 23. (B)



- 24. (D) 6 is written as F 2 is written as K
  - 4 is written as C
  - 9 is written as L
  - 1 is written as P
  - 3 is written as E
  - 8 is written as M
  - So, 23469 is written as KECFL.
- 25. (D) In all the options except option (d), there are 5 letters between these letters (in alphabetical series).
- 26. (D)  $7^2 + 3 = 52$  $9^2 + 3 = 84$
- $28. \ (B) \, 1 \, m \, n \, oop \, p \, q \, / \, 1 \, m \, n \, oop \, p \, q \, / \, \, 1 \, m \, n \, oop \, p \, q$
- 29. (A) Value of G + 5 = Value of L Value of K + 6 = Value of Q Value of N + 7 = Value of U
  - Value of H + 8 = Value of P
  - Similarly,
  - Value of E + 5 = Value of J
  - Value of H + 6 = Value of N
  - Value of Q + 7 = Value of X
  - Value of C + 8 = Value of K
- 30. (C) If H = 8, it shows the position of the letter H in the Alphabetical Series.
  - Also, LOT = (12 + 15 + 20) = 47
  - Similarly, PLOT = (16 + 12 + 15 + 20) = 63.

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1. (D) Correct Option: D

$$25 \rightarrow 25 \times (2+5) = 175$$

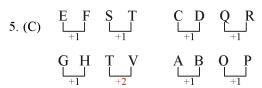
Similarly,

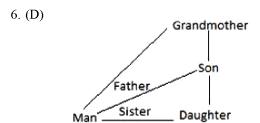
$$32 \rightarrow 32 \times (3+2) = 160$$

2. (D)  $343 \times 2 = 686 - (2)3 = 686 - 8 = 678$ Similarly,

$$512 \times 2 = 1024 - (2)3 = 1024 - 8 = 1016$$

- 3. (B) +5 series
- 4. (A) In all other groups, the first two letters are consecutive and third letter is 2 letters ahead of the second.





- 7. (D) 3, 4, 5, 2, 1
- 8. (D) HALFWAY  $\rightarrow$  4

$$8 + 1 + 12 + 6 + 23 + 1 + 25 = 58$$

$$5 + 8 = 13$$
,  $1 + 3 = 4$ 

THUGS  $\rightarrow$  3

$$20 + 8 + 21 + 7 + 19 = 75$$

$$7 + 5 = 12, 1 + 2 = 3$$

9. (C) Aman = Rohit + 3 years

Suresh = Aman + 3 years

Rohit = Danish

Suresh = 3 + 3 + Danish

Suresh is 6 years old of Danish.

10. (C) Father<sup>†</sup> Father<sup>†</sup> She<sup>-</sup> Daughter
Person<sup>†</sup> Person
(I) (II)

Two diagram are possible

So cannot be determine.

- 11. (A) According to the dictionary, the given words can be arranged as follows:
  - 4) Franchise
- 5) Frantic
- 3) Fraternity
- 1) Fraudulent
- 2) Fraught

So the correct order would be 4, 5, 3, 1, 2.

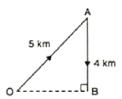
12. (B) The villager moves from his village at O to his uncle's village at A and thereon to Clearly, ?OBA is right-angled at B.

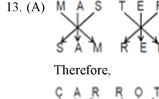
So, 
$$OA^2 = OB^2 + AB^2$$

$$OB^2 = OA^2 - AB^2$$

$$OB = km = km = 3 km$$

Thus, B is 3 km to the east of his initial position O.







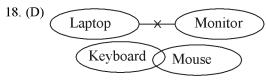
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- 14. (C) 'EXPANSION' is written as 248537693 Hence 'PENSION' be written as: Therefore PENSION → 8237693.
- 15. (C) Here the pattern is: cube of alternate odd numbers is added and square of alternate even number is subtracted.

$$89 + 1 = 90$$
 $90 - 8 = 82$ 
 $82 + 27 = 109$ 
 $109 - 64 = 45$ 
 $45 + 125 = 170$ 

- 16. (B)  $\xrightarrow{+2}$  D  $\xrightarrow{+2}$  D  $\xrightarrow{+3}$  G  $\xrightarrow{+3}$  J  $\xrightarrow{+3}$  M  $\xrightarrow{+3}$  D  $\xrightarrow{+3}$  D  $\xrightarrow{+3}$  S S  $\xrightarrow{-2}$  X  $\xrightarrow{-2}$  V  $\xrightarrow{-2}$  T  $\xrightarrow{-2}$  R  $\xrightarrow{-2}$  P
- 17. (D) The word, given under option 4 (i.e. 'Question') uses the letter 'O' but there is no 'O' letter in the keyword 'QUINTESSENCE'

  Hence, the word 'Question' cannot be formed using the given keyword.



19. (D) Kishore > Satish > Rajesh Kishore > Anil > Satish Now,

> Mohan > Kishore > Anil > Satish > Rajesh. So, Satish is taller than Rajesh but shorter than Anil.

20. (A) A is 10<sup>th</sup> from the left and B who is 9<sup>th</sup> from the right. When they interchange, A becomes 15<sup>th</sup> from the left.

Total number of boys = 15+9 - 1 = 23 boys.

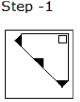
- 21. (C) If both I & II are strong.
- 22. (B) Only II follows.
- 23. (C) After moving in clockwise direction
  From Cube 1:+? ÷
  From Cube 2:+ % O
  Clearly, ÷ will be opposite to O.
- 24. (B) Replacing the symbols with their respective operators, then the equation becomes,

$$6 \times 7 + 169 \div 13 - 5$$
  
As per BODMAS rules,  
 $6 \times 7 + 169 \div 13 - 5$   
 $= 6 \times 7 + 13 - 5$   
 $= 42 + 13 - 5$   
 $= 55 - 5$   
 $= 50$ 

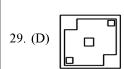
- 25. (C) Ist figure  $27 \div 3 + 16 \div 4$  = 9 + 4 = 13, IInd figure  $42 \div 7 + 65 \div 13$  = 6 + 5 = 11Same as IIIrd figure  $72 \div 8 + 27 \div 9$  9 + 3 = 1226. (C) 42,24,42,59,33,11,58,14
- 26. (C) 42,24,42,59,33,11,58,14 42-E, 24-L, 42-E, 59-C, 33-T, 11-I 58-O, 14-N
- 27. (B) The question figure is embedded in the answer figure (B).



28. (B) When the piece of paper is unfolded it will appear as:







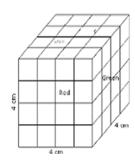






1. Side of the big cube

$$\sqrt[3]{64} = \sqrt[3]{4 \times 4 \times 4} = 4$$



There is 1 such cube at each corner which is painted from three sides Total cube = 8

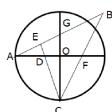
2. (C) In the given question, we see that.

Given series: a cdd b d ab dd

On substituting the letters of option C in the blank space,

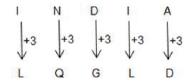
abcdd/abcdd/abcdd

3. (A)

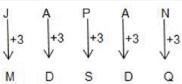


There are 9 triangles in all; DFC, ODC, OFC, ADE, CBG, AOG, CBE, CEG and ABF.

INDIA is written as LQGLD



Similarly, JAPAN is written as,



So, JAPAN is written as MDSDQ.



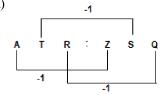
Durga Puja, Diwali and Eid are different festivals.

6. **(C)** 35 : 48 :: ? : ?

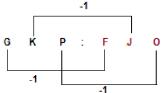
$$3 + 5 = 8$$
,  $\frac{48}{8} = 6$   
Same,  $48 : 72$ 

$$4+8=12, \frac{72}{12}=6$$

7. (A)



Similarly



Clearly, option B is not following the same pattern as other options.

- 9. (C) Logic: First number  $\times 4 + 5 =$  Second number
  - (A)  $10:45 \rightarrow 10 \times 4 + 5 = 45$
  - (B)  $6:29 \rightarrow 6 \times 4 + 5 = 29$
  - (C)  $9:32 \rightarrow 9 \times 4 + 5 = 41 \# 32$
  - (D)  $12:53 \rightarrow 12 \times 4 + 5 = 53$

Except (9:32), all follows the given logic.

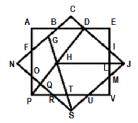
10. (B) Given: 13 \* 3 \* 4 \* 3 = 4

Using signs  $(-, \times, +)$  given in option (B)

- $= 13 3 \times 4 + 3 = 4$
- = 13 12 + 3 = 4
- = 1 + 3 = 4
- 11. (D) The correct order is:
  - 3) Demand
- 4) Depart
- 1) Deprive
- 5) Design
- 2) Despair

So, 3 4 1 5 2

12. (B)



The triangles formed in the above figure is -ABF, BCD, DEI, FNO, DHJ, IJL, JLM, IJM, HJS, GNS, OPR, OPQ, QPR, RSU, RST, TSU, MUV, HQS, PHT, PAD.

Total number of triangles is - 20.

- 13. (D) Logic:
  - $2^{1}+5=7$
  - $2^2 + 6 = 10$
  - $2^3+7=15$
  - $2^4 + 8 = 24$
  - $2^5+9=41$
  - $2^6 + 10 = 74$
  - $2^7 + 11 = 139$
  - So, Missing Number=139
- 14. (B) 'sdr ngt olp' = 'Going to Patna' (1) 'olp swq' = 'Going there'
  - 'yyt swq jht' = 'There was Golghar'\_

From 1 and 2, 'Going' = olp.

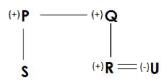
Therefore, 'there' = swq

So, let's put the characters

15. (C) 'xyza' and 'azyx' coming in series alternately

xyza/azyx/xyza/azyx

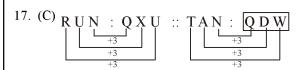
16. According to the given information:





S and R are cousins as their parents are brothers.

So, U is sister-in-law of S.



18. (A) The numbers 1, 2, 5 and 6 are adjacent to the number 3.

Therefore, the numbers 4 are located opposite to 3.

19. (B) Here the given words are coded by using the specific alphabet, like for TIGER = BLACK

Letters TIGER

code

BLACK

In similar way,

for LION = PLUM

Letters

LION

code

PLUM

By using the above codes of letters we get,

Letters

LITTERING

code

PLBBCKLMA

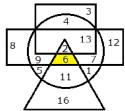
So.LITTERING = PLBBCKLMA

20. (C) Conclusion I information is not given in the statement.

Sun does not rise in west. That implies it rises in east. Hence, conclusion II will follow.

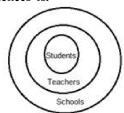
### By Deepak Tirthyani Sir

21. (B) The persons who are the fans of all the games except Badminton represented by the shaded part in the below figure.



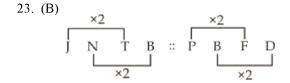
Hence, the correct option is B.

22. (A) Possible Venn-diagram of the given sentences is.



Here, either or situation will not occur even after no negative statements given in the question because diagram clearly says students are the parts of schools.

Thus, Only conclusion I follows.



J->10 -> 10x2 = 20->T

24. (A) 13\*2+2=28

28\*3+3=87

87\*2+2=176 but it is given as 178

176\*3+3=531

531\*2+2=1064

1064\*3+3=3195

25. (B) As such it is perforated in a semi-square manner and then it is perforated again. So, when we open it, the figure shown in option (B) will be.



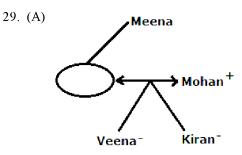
Q. 26, 27, 28

Friends	professions	house color
Р	Cook	Red
Q	Banker	yellow/white
R	Teacher	yellow/white
S	Lawyer	Blue

26. (D) It is not clearly mention who owns the white house.

Therefore, it can't be determined.

- 27. (A) S (Lawyer) owner of blue house.
- 28. (B) Q is Banker



30. (C) GO THROUGH OPTION:

1 2 3 4 5 6

S Y S T E M

EYSSTM

5 2 1/3 1/3 4 6

1 2 3 4 5 6

I O A D F R

EOLADR