Deepak Tirthyani

India's No. 1 Reasoning Teacher

# SOLUTIONS
Mock Test (16 to 20)

- ➤ 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
- ➤ More than 300 times in you tube Trending videos.
- ➤ 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 by Deepak sir

Reasoning in My Blood

www.deepaksir.com

16 Moct Test

SOLUTION

1. (B) G M, J O, K P, N R, O S, R U
(+3, +2), (+1, +1), (+3, +2), (+1, +1), (+3, +2)
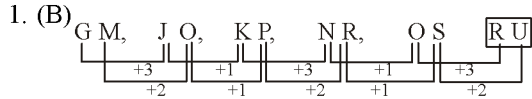
2. (C) $3 \times 2 + 1 = 7$

$7 \times 2 - 1 = 13$

$13 \times 2 + 1 = 27$

$27 \times 2 + 1 = 53$

$53 \times 2 + 1 = 107$

3. (C) Ravish = 7 years + Vikash's age

Akash's age = Ravish - 3 years

Mohit's age = Akash's age - 5 years

∴ Ravish > Akash > Vikash > Mohit

4. (C) Logic :

Sum of place values of all alphabets multiplied with 2.

IPHONE → 9+16+5+15+14+5 → 67× 2 = 134

GALAXY → 9+1+ 12+6+24+25 → 70×2=140

5. (D) Ram's position from top = 12th

Ram's position from bottom = 16th

Total number of students = (12 + 16) – 1

$= 28 – 1$

$= 27$

6. (B) Maruti's position from the left end = 20th

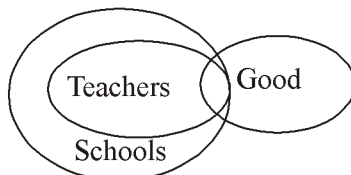Honda's position in the row = $(20^{th} + 10^{th})$

$= 30^{th}$

So, total number cars in the row = (30 + 30)–1

$= 59$

7. (A)

Teachers, Good, Schools

Only I follows.

8. (B)

9. (B) 200 + 100 – 300 + 200 ÷ 10 × 2 – 40

$= 300 – 300 + \dfrac{200}{10} \times 2 = 40$

$= 40 – 40 = 0$

10. (B) S U R G E O N
Q L H D U R V

C O R N E R
O H K U L F

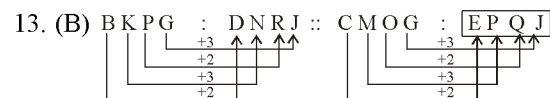Similarly

S H A D O W
T R A D E V
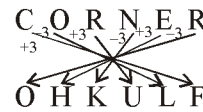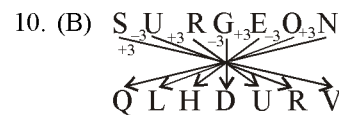
Logic : (+3, –3, +3, –3, +3, –3)

11. (B) 14 ÷ 2 × 4 > 6 × 4

$= 7 \times 4 > 6 \times 4$

$= 28 > 24$

12. (A) Maron uses Plumb line to measure the depth and straight lines.

Surgeon uses seaspel dwing operation of patients for cutting skin if required.

13. (B) B K P G : D N R J :: C M O G : E P Q J
(+3, +2, +3, +2)

14. (C) $(16)^2 → 256$

$(17)^2 → 289 + 1 = 290$

$(31)^2 → 961$

$(32)^2 → 1024 + 1 = 1025$

15. (D) Farmer, blacksmith and cobbler all work directly but helpers are the people who assist a person in there work.

16. (A) Later is the famous place of the former city. President house not situated in Mumbai Other are monuments situated given city.

17. (A) LIAR cannot be formed from QUALIFICATION as R is not there in QUALIFICATION

18. (D) $(9 + 11) \times 2 = 20 \times 2 \rightarrow 40$

   $(13 + 12) \times 3 = 25 \times 3 \rightarrow 75$

   $(40 + 41) \times 5 = 81 \times 5 \rightarrow 405$

   $\theta = +, \alpha = \times$

19. (D) $7 + 2 + 4 + 5 \rightarrow 18 \rightarrow 1 + 8 \rightarrow 9$

   $8 + 3 + 1 + 6 \rightarrow 18 \rightarrow 1 + 8 \rightarrow 9$

   $2 + 3 + 7 + 6 \rightarrow 18 \rightarrow 1 + 8 \rightarrow 9$

20. (D) $11 \times 2 \times 4 = 88 + 10 \rightarrow 98$

   $3 \times 6 \times 5 = 90 + 10 \rightarrow 100$

   $8 \times 9 \times 1 = 72 + 10 \rightarrow 82$

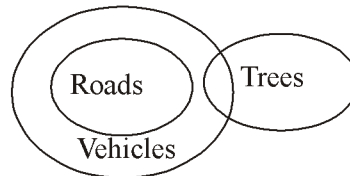21. (A) If we open the dice it will like this figure So the pairs which are formed is (%, $) and
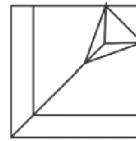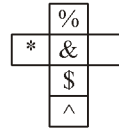
22. (B)

23. (D) Woods, wood, Leather all we natural resource but are of different in nature and obtained from different source.

24. (A)

25. (C)

17 Moct Test

SOLUTION

1. (C) 50,　59,　75,　100,　136
　　　　　9　　16　　25　　36
　　　　$(3)^2$　$(4)^2$　$(5)^2$　$(6)^2$

2. (D) 4 : 32

　　　$(4)^3 = 64 \rightarrow \dfrac{64}{2} = 32$

　　　$(6)^3 = 216 \rightarrow \dfrac{216}{2} = 108$

3. (B) Let the present age of Akshan but x.

　　Savan's present age = 4x

　　After, 10 years.

　　(4x + 10) = 2 (x + 10)

　　4x + 10 = 2x + 20

　　2x = 10

　　x = 5 years.

　　∴ Savan's present age = 4 × 5 = 20 years.

4. (A) 2,　5,　11,　23,　44,　77
　　　　+3　+6　+12　+21　+33
　　　　　+3　+6　+9　+12

5. (C) $1 + 2 + 3 \rightarrow 6$

　　$7 + 8 + 9 \rightarrow 24$

　　$4 + 5 + 7 \rightarrow 16$

　　$5 + 6 + 7 \rightarrow 18$

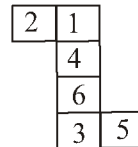　　All are divisible by 3 except 457.

6. (C) 29 : 13 :: 37 : ?

　　$13 \times 2 \rightarrow 26 + 3 \rightarrow 29$

　　$17 \times 2 \rightarrow 34 + 3 \rightarrow 37$
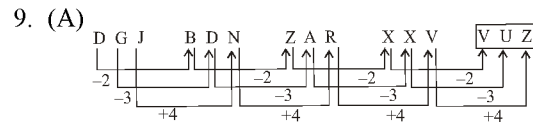
7. (C) After opening a dice, it will appear in this way.

　　The pairs of opposite surfeces are :

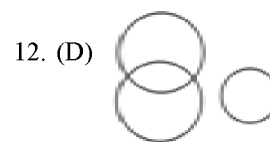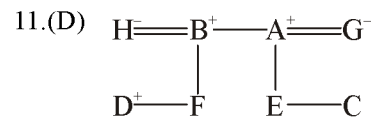　　(2, 5), (1, 6) and (4, 3).

8. (C) Month — Car —✕— Week —✕— Year

　　Both I and II follow.

9. (A) D G J　B D N　Z A R　X X V　V U Z
　　　−2　　−3　　−2　−3　　−2　−3　　−2　−3
　　　　+4　　　+4　　　+4　　　+4

10. (B) 12 : 192 :: 15 : ?

　　$12 \times 16 \rightarrow 192$

　　$15 \times 16 \rightarrow 240$

11. (D) H＝＝B$^+$ — A$^+$＝＝G$^-$
　　　　　|　　　　|
　　　D$^+$ — F　　E — C

12. (D)

　　Some man are worker and garden is different.

13. (C) U U I T E D
　　　+3 +3　　+3 +3
　　　　+3　　　+3
　　　L Q X G H W

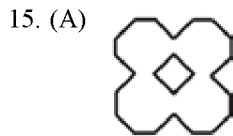　　Similarly

　　C R I T I C
　　+3 +3　　+3 +3
　　　+3　　　+3
　　L U F F L W
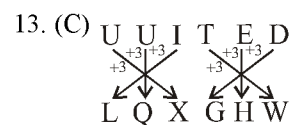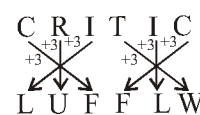
　　Logic : (3+, +3, +3)

14. (B) For being successful one should have good speed along with accuracy and Rahul has good speed but his accuracy is low. so, he might not be succesful.

15. (A)

16. (C) (9, 35, 16)

$9 \rightarrow (3)^2$

$16 \rightarrow (4)^2$

(36, 55, 25)

$36 \rightarrow (6)^2$

$25 \rightarrow (5)^2$
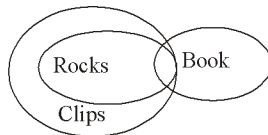
17. (B) 243 % 3 = 18   124%4 = 19

$243 \times 3 = 729$ $124 \times 4 = 496$

7+2+9 = 19   4+9+6 = 19

Similarly 187 % 4 = ?

$187 \times 4 = 748$

7 + 4 + 8 = **19 = ?**

18. (A)

If only conclusion I follows.

19. (A) Let the son's age would he 6x

Present ages,

Son's age = x + 2

Man's age = 6x + 2

After 18 years.

Son's age will be x + 2 + 18

= x + 20

Man's age = (6x + 2 + 18)

= 6x + 20

$\therefore 6x + 20 = 2(x + 20)$

6x + 20 = 4x + 40

4x = 20

x = 50 years

Man's present age = $(6 \times 5) + 2$

= 32 years

Son's present age = 5 + 2 = 7 years.

20. (B) Only conclusion II is true.

21. (A) $6 \times 64 \div 8 + 45 - 8$

$= 6 \times 8 + 45 - 8$

$= 48 + 45 - 8$

$= 93 - 8$

$= 85$

22. (D) A, B, E, J, Q, Ⓩ

+1 +3 +5 +7 +9

23. (C) Father ═══Wife⁻

Saksham

Nidhi⁻
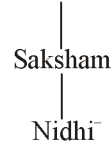
24. (D) bac d̲ cab a̲ cd c̲ a b̲ ac d̲ ca

25. (A) 2023 – 2017 = 6 years

6 year = 1 leap year + 5 normal year

$1 \times 2 + 7 \times 5$

$= 2 + 5 = \frac{7}{7} = 0$

2023 calendar same as 2017 calender
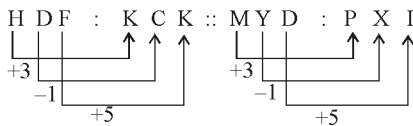
18 Moct Test

SOLUTION

1. (B) 132 : 182 :: 306 : ?

$(12)^2 \rightarrow 144 - 132 = 12$

$(14)^2 \rightarrow 196 - 182 = 14$

$(18)^2 \rightarrow 324 - 306 = 12$

$(20)^2 \rightarrow 400 - 20 = \textbf{380}$

2. (C)

H D F : K C K :: M Y D : P X I
+3, –1, +5 ; +3, –1, +5

3. (D) Doctors uses stethoscope for checking patients whereas authors uses pen for writing.

4. (B) Diamond, gold and silver all there of them are expensive metals.
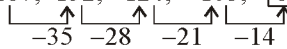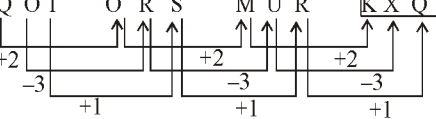
5. (B) $47 \times 3 = 141$

$56 \times 3 = 168$

$61 \times 3 = 183$

$26 \times 3 = 78$

6. (B) Sarcastic, tronical, and complaisant all are the tone of writing one speaking.

7. (C) 187, 152, 124, 103, 89
–35, –28, –21, –14

8. (D)

Q O T   O R S   M U R   K X Q
+2, –3, +1 ; +2, –3, +1 ; +2, –3, +1

9. (A)

M	A	S	A	U	L	I	P	A	T	T	A	N	A	M
9	2	1	2	3	6	7	4	2	0	0	2	5	2	9

M	A	N	A	L	I
9	2	5	2	6	7

10. (C)

17km   O   17km

8km

Savita   Saveen

2km   7km
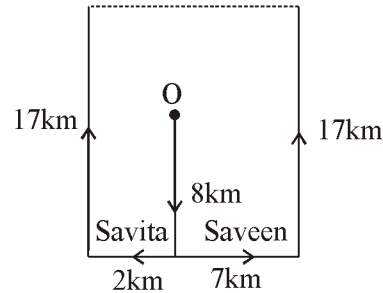
11. (B) $8^2 + 3 = 61$

$64 - 3 = 61$

$10^2 + 7 = 93$

$100 - 7 = 93$

$12^2 + 12 = 192$

$144 - 12 = 132$

12. (D) Mod of 5 – 1 = 4, 61 = 6 – 1 = 5

4, 5 continuses sequence

otherwise difference 1

Mod of 6 – 3 = 3, 15 = 5 – 1 = 4

3,4 continue sequence

otherwise difference 1

Mod of **7– 4 = 3, 15 = 5 – 1 = 4**

3, 4 continue sequence

otherwise difference 1

13. (C) Read cannot be formed from the word UNFAVOURABLE as 'D' is not there in the given word.

14. (B) 4. Rescue, 1. Reservoir,

5. Resign, 2. Resort, 3. Restless

4, 1, 5, 2, 3

15. (A) Carnivorous, cows, both are animals but cows are not carnivorous animals.

16. (D) If is said that first number will be of row and second number will be of column.
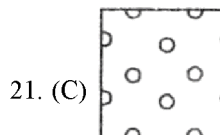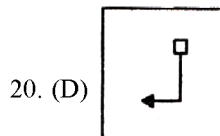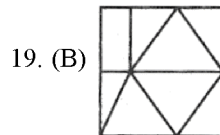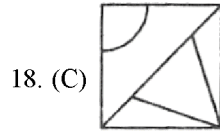
N   E   A   R

57, 79, 32, 24

17. (C) $3 \times 4 \rightarrow 12 \times 4 = 48$

$4 \times 2 \rightarrow 8 \times 2 = 16$

$7 \times 1 \rightarrow 7 \times 1 = 7$

18. (C)

19. (B)

20. (D)

21. (C)

22. (A)

1	2	3	4	5
				4
				3
				2
				1

$(1 + 2 + 3 + 4 + 5) = 15$

$15 \times 15 = 225$

23. (A) I like you = 64

$9 + 12 + 9 + 11 + 5 + 25 + 15 + 21 = 107$

$1+0+7 = 8, \quad 8^2 = 64$

Similarly   I have U = ?

$9 + 8 + 1 + 22 + 5 + 21 = 66$

$6 + 6 = 12, \quad 12^2 = \textbf{144 = ?}$

24. (A) Unemployment allowance or any allowance can be granted by if grounment has sufficient found to distribute allowance.

25. (C) A hour hand moues $\left(\dfrac{1}{2}\right)^{\circ}$ in 1 minute where as a minute hand moves $(6)°$ in a minute.

$\therefore$ Movement of hour hand in 25 minutes

$= 25 \times \dfrac{1}{2} = 12.5°$

Movement of minute hand in

25 minute $= 25 \times 6 = 150$.

$\therefore$ Reflex angle formed at 9 : 25 will be

$= 360° - (150 - 12.5)°$

$= 360° - 137.5°$

$= 222.5°$

19 Moct Test — **SOLUTION**

1. (C) Banful and Harmful woth are synonms similary rest and idle are also synonm.

2. (D) $7 : 19 :: 3 : 15$
   -4
   -4

3. (A) N K H : R O L :: D E P : HIT
   +4 +4 +4   +4 +4 +4

4. (B) 1. Disrupt, 3. Disseminate, 2. Distance, 5. Distinguish, 4. Disturb.

5. (C) Bus cannot be formed from the word BIFURCATE as in this word's is not there.

6. (B) B, H, and K all are consonants only E is vowel.

7. (C) Attainable means a person who sets a goal which can be achieved. Rest all there words are related to the behavioural pattern of a person.

8. (D) $18 + 4 - 15 = 7$
   $27 + 7 - 27 = 7$
   $46 + 3 - 42 = 7$
   Same as
   $51 + 9 - 53 = 7$

9. (C)

   O 3m N
   J 5m 2m
   6m 7m
   C 8m F M
   N is 5m north of point F.

10. (D) (A) $4 - 6 + 22 \times 3 = 21$
    $- 2 + 66 = 21$
    $64 \neq 21$
    (B) $4 - 5 + 2 + 3 = 21$
    $9 - 5 = 21$

$4 \neq 21$
(C) $3 - 7 + 4 + 9 = 15$
$16 - 7 = 15$
$9 \neq 15$
(D) $4 + 2 + 7 - 3 = 25$
$10 \neq 25$

11. (C) $9, \quad 9, \quad 36, \quad 180, \quad 1080, \quad \boxed{7560}$
    ×1 ×4 ×5 ×6 ×7

12. (D) $7, \quad 13, \quad 20, \quad 28, \quad 37, \quad \boxed{47}$
    +6 +7 +8 +9 +10
    OR
    $3+4, \quad 7+6, \quad 12+8, \quad 18+10, \quad 25+12$
    +2 +2 +2 +2
    +4 +5 +6 +7
    So, next turm in there series will be
    $25 + 8 = 33$
    $12 + 2 = 14$

13. (A) pr s qs t rt u su v tvw

14. (C)

15. (D)

16. (A) D R I V E
    42, 95, 69, 56, 02

17. (B) Father+
    |
    Mother¯──────Maternal Uncle+
    |
    Kratika¯──────Ranvijay+

18. (D) MIRROR

19. (C) Eangles and peacocks both are wirds.

20. (B)

21. (A) In figure-1

　　$6 \times 3 = 18$

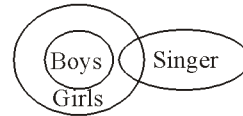　　In figure-2

　　$7 \times 4 = 28$

　　In figure-3

　　$7 \times 8 = 56$

22. (B) $7 + 2 = 9$

　　$9 + 4 = 13$

　　$13 + 6 = 19$

23. (C)

Only conclusion I follow.

24. (D) 1. Ankita is further up the ladder than Mohit.

　　　　Ankita > Mohit

　　2.　Mohit is in between Ankita and Shilpi.

　　　　Ankita > Mohit > Shilpi

　　3.　Rahul is further than Ankita

　　　　Rahul > Ankita > Mohit > Shilpi

　　Mohit is second person from bottom.

25. (C)

	Week Days
Day before Yesterday	Sunday
Today	Monday
Tomorrow	Tuesday
day After	Wednesday
1 Day after	Thursday
2 Days after	Friday
	Saturday

20 Moct Test

SOLUTION

1. **(B)** From light rays travel and sound travels in the wave.

2. **(C)**

A B C D : E H I H :: B E I C : [J T A F]
×2, ×3, ×4, ×5
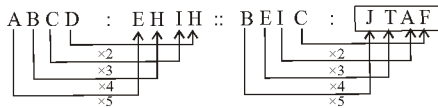
3. **(A)** 7 : 56 :: 8 : ?

    7 × 8 = 56

    8 × 8 = 64

4. **(D)** All are divisible by 4 except 102.

5. **(C)**

B   G   G   L   L   P   Q   V

   +5   +5   +4   +5

6. **(C)** Velocity measures the rate of change in position of an object where as speed measures the rate of distance covered by an object. velocity is vector quantity where as speeds. distance and volume all are scalar quantity.

7. **(B)**   4. Prejudge   2. Prejudgement

      1. Prejudgment   3. Prejudice

    4, 2, 1, 3

8. **(C)**

7,   15,   25,   37,   [51]

   +8   +10   +12   +14

9. **(B)**

B D G, $\xrightarrow{+0}$ G D B, $\xrightarrow{+7}$ I K N, $\xrightarrow{+0}$ N K I, $\xrightarrow{+70}$ [P R U]

+2 +3   −3 −2   +2 +3   −3 −2   +2 +3

10. **(A)**

N   U   M   B   E   R
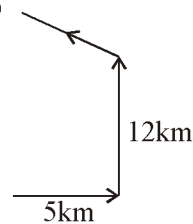
+2 −2 +2   −2 +2 −2

P   S   O   Z   G   P

Similarly

S   T   U   D   Y

+2 −2 +2   −2 +2

U   R   W   B   A
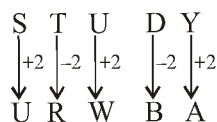
11. **(C)** 48 ÷ 4 + 6 × 3 = 30

= 12 + 18 = 30

= 30 = 30

12. **(B)**
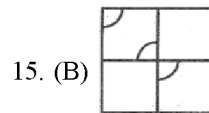

12km

5km
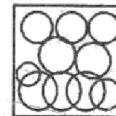
The person is moving towards north west.

13. **(C)**
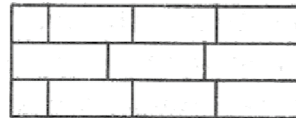
10 + 10 + 7 + 3 + 1
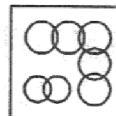
Total = 31

14. **(B)** All Cricketers are players while some students are both cricketers and players.
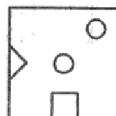
15. **(B)**

16. **(B)**

17. **(A)**

18. **(C)**

19. (B) Avrage age of 19 boys = 21 years

sum of ages of 19 boys = (21 × 19) = 399

When teacher's age is added then the average

= 22 years.

∴ Sum of ages of students and teacher

= 22 × 20 = 440

Hence, teachers age = 440 – 399 = 41 years

20. (B) 7 × 5 × 6 = 576

       4 × 2 × 5 = 245

       8 × 2 × 5 = 285

21. (A) 3 × 2 × 6 = 36

       4 × 5 × 7 = 140

       9 × 2 × 18 = 324

22. (A) There are 8 cubes in two column there are 3

such columns.

So, total number of cubes = 8 × 3 = 24

23. (A) e f̲ gh e̲ fg h̲ ef g h e̲ fgh

24. (D)
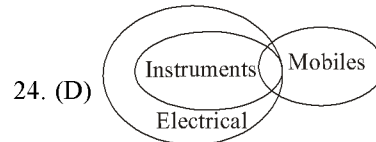
Neither I nor II follows.

25. (D) D   U   C   K

     04, 30, 44, 85

First digit represents the column and second

digit represents the row.