EXAMWAR
PUBLICATION

Deepak Tirthyani

India's No. 1 Reasoning Teacher

SOLUTIONS
Mock Test (51 to 55)

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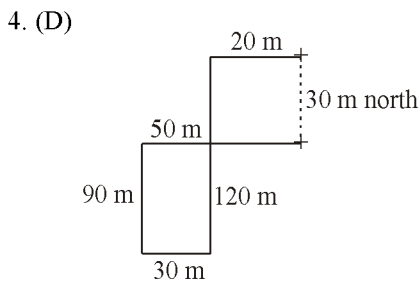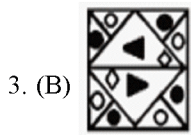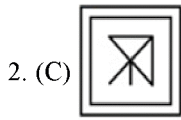### Reasoning by Deepak sir

Reasoning in My Blood
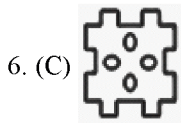
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51 Moct Test　　**SOLUTION**

1. (A)
(A) O Q R T
+2 +1 +2
(B) I K M O
+2 +2 +2
(C) C E G I
+2 +2 +2
(D) T V X Z
+2 +2 +2

2. (C)

3. (B)

4. (D)

20 m
30 m north
50 m
90 m
120 m
30 m

5. (C)
N R G L E D G L L D
opp. −3 opp. −3 opp. −3 opp. −3 opp. −3
M O T I V A T I O N

Similarly

W H N H Z Q L X I V
opp. −3 opp. −3 opp. −3 opp. −3 opp. −3
D E M E A N O U R S

6. (C)
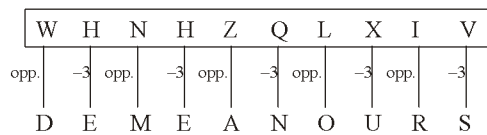
7. (C) 72 : 108 → 36 × 2 = 72
36 × 3 = 108
Same as
84 : 126 → 42 × 2 = 84
42 × 3 = 126
logic (×2, ×3)

8. (B)
H O N E Y
−1 −1 −1
G 4 M 2 X

Same as

S T A T U E
−1 −1 −1
R S 1 S 5 2
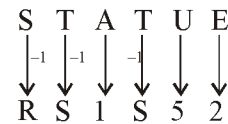
Logic :　　　Consonet = − 1,
Vowel number - A, E, I, O, U,
1　2　3　4　5

9. (B) If y = 50, Y = 50, y = 25 × 2 = 50
SEA = 50, (19 + 5 +1)×2 = 25 × 2 = 50
YACHT, (25 + 1 + 3 + 8 + 20) × 2
= 57 × 2 = 114

10. (D)
Male Doctors
Singars

11. (A)
E, Y, U, O, K, E, A
−6 −4 −6 −4 −6 −4

Logic : **−6, −4**

12. (B) 25 : 15625 :: 30 : ?
25^3 = 15625
Same as
30^3 = 27000

13. (D) $\dfrac{7}{50} : \dfrac{9}{82} : ? : \dfrac{13}{170} : ?$

$\dfrac{7}{50} = 7^2 + 1 = 50$

$\dfrac{9}{82} = 9^2 + 1 = 82$

$\dfrac{13}{170} = 13^2 + 1 = 170$

Same as

$\dfrac{15}{226} = 15^2 + 1 = 226$
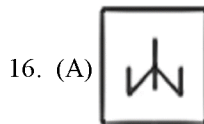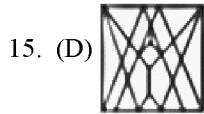
14. (D) $18 + 13 - (14 + 12) = 31 - 26 = 5$

$39 + 9 - (33 + 10) = 48 - 43 = 5$

Same as

$7 + 4 - (2 + x) = 11 - 2 - x = 5$
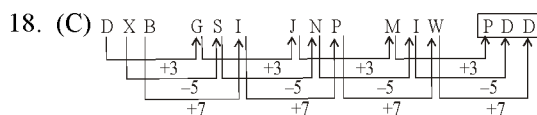
$\qquad\qquad 11 - 2 - 5 = x$

$\qquad\qquad\qquad x = 4$

15. (D)

16. (A)

17. (A)

23, 115, 207 , 16, 80, 144
  ×5   ×5
    ×9   ×9

6, 30, 54 , 21, 105, 189
  ×5   ×5
    ×9   ×9

8, 41, 72
  no multipliy
    ×9

18. (C) D X B   G S I   J N P   M I W   P D D

+3   +3   +3   +3
−5   −5   −5   −5
+7   +7   +7   +7

Logic : (+3, −5, +7)

19. (D)
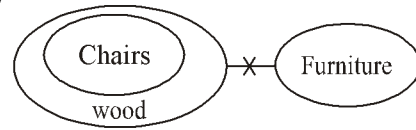
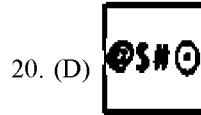Neither I nor II conclusion are follows.

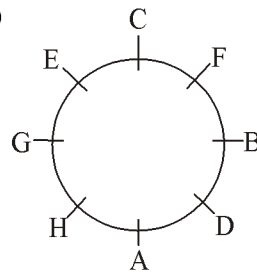20. (D)

21. (A)

I N S P I R E
+1 +2 +3 +4 +5 +6 +7
J P V T N X L

Simiarly

P E R S I S T
+1 +2 +3 +4 +5 +6 +7
Q G U W N Y A

22. (A)

D is sitting between A and B.

23. (A)

35   52   75   110   151   [204]
  17   23   35   41   53
    6   12   6   12

24. (D) C₵47₹9ℒJᵞℛ𝒮T

25. (B)
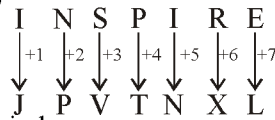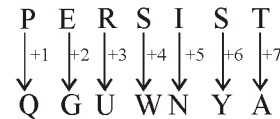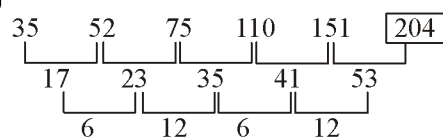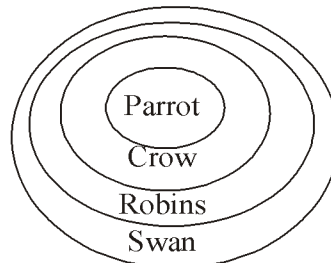
Only coclusion I and IV are follow.
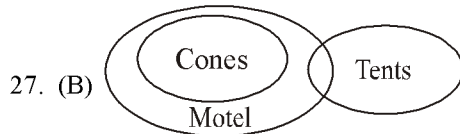
26. (D) Jurist : Law :: orator : ?

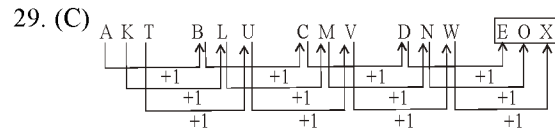Jurist - an expert in or writter on law (a lawyar or a Judge)

Same as

Orator - a public speaker especially one who is eloquent or skilled correct is speech.

27. (B)

Only conclusion II follow.

28. (C) According to question coding

we got salt from water (because - sea - is called water)

29. (C)

30. (A) Price base arrangement

D > C > B > A > E

52 Moct Test   **SOLUTION**

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1. (B)

```
            40m
      ┌──────────────┐
  25m │              │ 25m
      │              │
      └──────────────┘
            40m
   35m
   ◄──────────┤
   ├──────────────────────►
            75m
```

Vijay 35 m for from starting point.

2. (C)

C R I C K E T
+1 +1 +1 +2 −1 −1
J S D E S D J

Simiarly

M A T C H E S
+1 +1 +1 +2 −1 −1
U B N E R D G
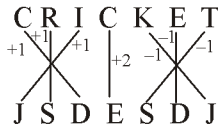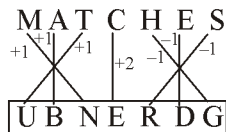
3. (D) Zoology is related to - study of animal

Carniology is - study of skull

4. (A) N M T   P O V   R Q X   T S Z
   +2   +2   +2
   +2   +2   +2
   +2   +2   +2
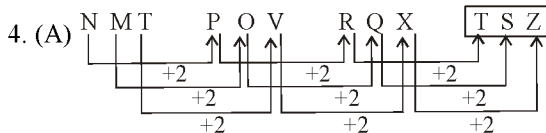
Logic : (+2, +2, +2)

5. (B) M > T > N > O > Q > R

'M' is the tallest and 'R''s the shortest.

6. (C)
P Q R T
+1 +1 +2

I J K M
+1 +1 +2

E F G I
+1 +1 +2

U V W Z
+1 +1 +3   odd one

7. (C)
L E A D   R A T
+3 +3 +3 +3   +3 +3 +3
15 8 4 7   21 4 23

Similarly

R O S E
+3 +3 +3 +3
21 18 22 8
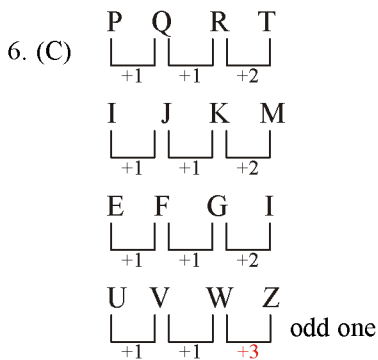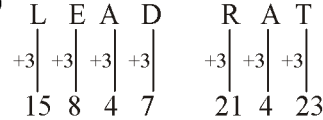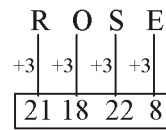
8. (C) 10 : 100 :: 18 : ?

$(10)^2 = 100$

Same $(18)^2 = ? = $ **324**

9. (D) 1, 5, 4, 6, 3, 2

Alarm set, alarm rang, wake up, get ready, car, office.

10. (D)

Both conclusion I and II are follow.

11. (B)
B Q C R
+1
+1

F V G W
+1
+1

H X I Y
+1
+1

D S E U
+1   odd one
+2

12. (C) 23 : 12167 :: 25 : ?

$(23)^3 = 12167$

Same $(25)^3 = 15625$

13. (D) $3 \times 14 - 56 \div 4 + 60 = -4$

put sign option (d)

$3 \times 14 + 56 \div 4 - 60 = -4$

$42 + 14 - 60 = -4$

$56 - 60 = -4$

$-4 = -4$

14. (D) Buffalo - are animal, and other three are "Birds" (So buffalo is odd word)
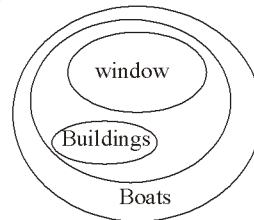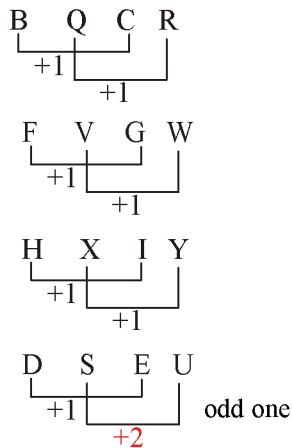
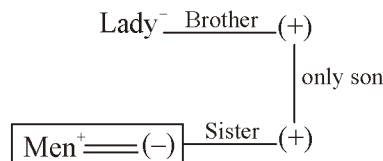15. (D) $8 * 6 * 96 * 2 = 0$

Put sign option (D)

$8 \times 6 - 96 \div 2 = 0$
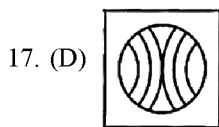
$48 - \dfrac{96}{2} = 0$

$48 - 48 = 0$

$0 = 0$

16. (A) Aunt

The lady is aunt of the wife of that man.

17. (D)

The given question figure is embedded in option (D).

18. (D)
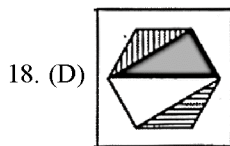
The correct mirror image of the given figure option (D)

19. (A)

20. (A)
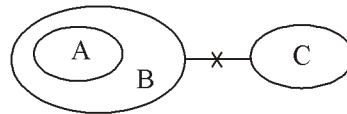
Only II conclusion follow.

21. (D) (I) Raju > Seshan > Ammu.

(II) Nitin = Ammu > Kishor

Raju > Sehan > Nitin = Ammu > Kishor

Nitin is taller than kishor.

22. (C) 12 B 12 A 4 C 5 D 1

$= 12 \times 12 \div 4 + 5 - 1$

$= 12 \times \dfrac{12}{4} + 5 - 1$

$12 \times 3 + 5 - 1$

$= 36 + 4 = 40$

23. (A) Kyat - Myanmar country curruncy and other three are capital of contries

Cairo - Eqypt, Paris - France, Ottawa - Canada

24. (A)
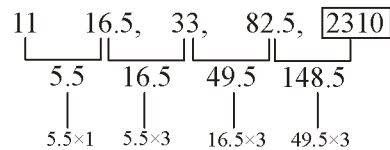
Logic : double multiple (Diff. ×3)

25. (D)
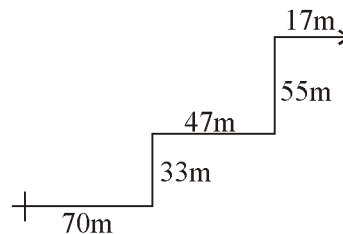
He cover total speed - 70 + 33 + 47 + 55 + 17

$\qquad\qquad\qquad = 222$

26. (A)
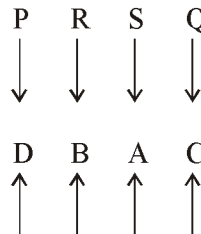
R is opposite of B.

27. (C)
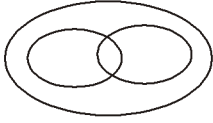
28. (D) 216, - 6^3,

other are square $\begin{Bmatrix} 8^2 = 64 \\ 5^2 = 125 \\ 15^2 = 225 \end{Bmatrix}$

29. (B) Root is base of Tree.
Same fire is base of smoke.

30. (B)

Total = L + R – 1
Total = 4 + 12 – 1
Total = 15
If we odd 13 student in row.
than total student in row = 15 + 3 = 28.
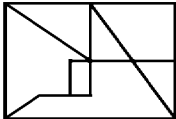
53 Moct Test

SOLUTION

1. (C) Given
   DECH : ECFD : : GVSO which means D+1=E, E-2=C, C+3=F and H-4=D
   Similarly, G+1=H, V-2=T, S+3=V, O-4=K

2. (A) cd <u>d</u> de <u>c</u> dd <u>d</u> ecdd <u>d</u> e
   dcdd

3. (D)

   There are total 4 triangles present in the figure.

4. (B) Given
   d a _ b a _ d _ b _ a d
   So, the series is dab/bad/dab/bad

5. (A) Both I and II follow.

6. (D) Priyanshu is the brother of Sarita and father of Golu. Tina is the wife of Priyanshu, which means Golu is the grandson of Tina's mother in law.

7. (A) Given set
   (13, 18, 22) which means 13+5=18, 18+4=22.
   Similarly, 17+5=22, 22+4=26.

8. (B) Given:
   8765 : 11 : : 9252 : 73 : : 4397

   8–7   6–5   9–2   5–2
   ↓   ↓   ↓   ↓
   1   1   7   3

   Similarly,

   4–3   9–7
   ↓   ↓
   | 1   2 |

9. (A) Number of days between the two dates
   i.e. 28th August to 19th December = 3 + 30 + 31 + 30 + 19 = 113

   Number of odd days = 113/7 = remainder = 1
   So, day on 19th December = Sunday + 1 = Monday.

10. (D) Fold cannot be formed from the word 'FORMED' because there is no 'L' in the given word.

11. (B) The number opposite to 6 is 2.

12. (C) As, both of them starts from the same point.
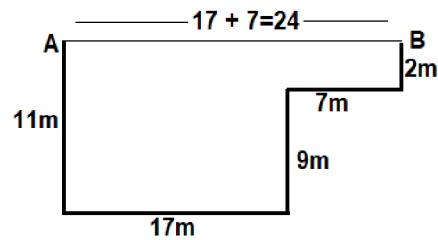
   So, B is now 24m east from A.

13. (A) Column I. 8 + 14 = 10 + 12
   $$22 = 22$$
   Column II. 11 + 7 = 6 + 12
   $$18 = 18$$
   Same as
   $$12 + 1 = 9 + 4$$
   13 = 13

14. (A) Pulsar is 20th from the left end and Apache is 9th to the right of Pulsar which means Apache is 29th from the left and exact middle of the row so, the total number of bikes 28+ 28+ 1 =57.

15. (A) $(12 \times 2)^2 = (24)^2 = 576$
   Similarly,
   $? = (8 \times 2)^2 = (16)^2 = 256$
   So ? = 256
   Hence, the correct answer is option A.

16. (B) Given,

    Mine work – ftd gtd

    His work – ftd ntd(so, work is coded as ftd)

    Your mine – htd gtd(so, mine is coded as gtd,

    his and your coded as ntd and htd respectively)

17. (D) Given series

    ?, UK6, RI10, ?, LE18

    X – 3 = U, U – 3 = R, R – 3 = O, O – 3 = L

    M – 2 = K, K – 2 = I, I – 2 = G, G – 2 = E

    2 + 4 = 6, 6 + 4 = 10, 10 + 4 = 14, 14 + 4 = 18

18. (C) Given set (78, 12, 59)

    (78 ÷ 6) – 1 = 12, (12 × 5) – 1 = 59

    All except option (c), in which (48 ÷ 6) – 1 = 7,

    (7 × 5) – 1 = 34

19. (C) If 'A' is coded as 26, 'SAW' is coded as S(8)

    + A(26) + W(4) = 38, it means the letter are

    numbered from the reverse of alphabetical order,

    so 'PLOT' is coded as P(11) + L(15) + O(12) +

    T(7) = 45.

20. (B) The word 'DECLARE' can't be formed from

    the word 'SECUNDERABAD' because there is

    no 'L' in the given word.

21. (D) 3　　10,　　24,　　52,　　108,　　| 220 |

    　　　×2+4　×2+4　×2+4　×2+4　×2+4

22. (D) The number opposite to 1 would be '6'.

23. (C) Second term is the sum of first two digits

    of the first term.
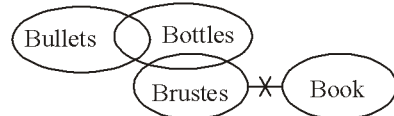
    i.e. Second term = (4 + 9) = 13

    Fourth term is the sum of first two digits of the

    third term.

    i.e. Fourth term = (4 + 2) = 6.

    Sixth term is the sum of the first two digits of

    the fifth term.

    Sixth term = (6 + 3) = 9.

24. (B)

Bullets　Bottles　Brustes　⤬　Book

25. (C) Given

    6　3　2

    8　10　12

    4　5　1

    14　13　9

    The pattern is 6 + (8/2) + 4 = 14, 3 + (10/2) + 5

    = 13, similarly, 2 + (12/2) + 1 = 9.

26. (C)

    (+)
    |
    (–)
    |
    (+)

    Cannot be determine

27. (D) **Given series :** 28, 33, 31, 36, 34, 29

    Logic:(+5, -2, +5, -2..so on)

    So,

    28(+5) = 33

    33(-2) = 31

    31(+5) = 36

    36(-2) = 34

    34(+5) = 39**(but 29 is given)**

    So, 29 is wrong.

28. (D) Here the correct repeating pattern is : nbkl

So the completed series will be : bpnlk/bpnlk/

    bpnlk

    Hence, option D is the correct response.

29. (B)

Letter	a	b	c	d
Meaning	÷	–	×	+

    After putting the symbols,

    18 ÷ 2 + 10 – 5 × 3 (applying BODMAS)
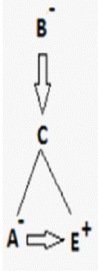
    = 9 + 10 – 15

    = 19 – 15

    = 4

    Hence, option B is correct.

30. (A)

From the given information given in the question, it is clear that B is the grandmother of A.

Hence, option A is the correct response.

54 Moct Test　　**SOLUTION**

1. (A)

O,　Q,　R,　T
　　+2　　+1　　+2

I,　K,　M,　O
　　+2　　+2　　+2

C,　E,　G,　I
　　+2　　+2　　+2

T,　V,　X,　Z
　　+2　　+2　　+2

Option (A) is odd (not follow the pattern +2, +2, +2)

2. (D)

3. (B)

4. (D)

```
            20 m
        ┌──────┐
   30 m │      ┊ ←30 m north
   ┌────┴──┐   ┊
   │ 50 m  │120 m
50 m│ 90 m │
   └───────┘
     30 m
```
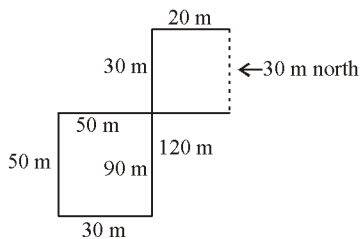
5. (C)

N R G L E D G L L Q
opp. |−3 opp. |−3 opp. |−3 opp. |−3 opp. |−3
M O T I V A T I O N

Same as

Q H N H Z Q L X I V
opp. |−3 opp. |−3 opp. |−3 opp. |−3 opp. |−3
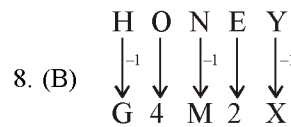D E M E A N O U R S

6. (B)
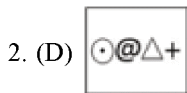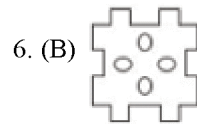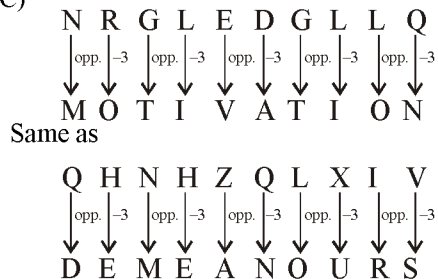
7. (C)　72 : 108,　　　$36 \times 2 = 72$
　　　　　　　　　　　$36 \times 3 = 108$

Same as

　　84 : 126,　　　$42 \times 2 = 84$
　　　　　　　　　　$42 \times 3 = 126$

Logic : multiply (x2, x3)

8. (B)

H　O　N　E　Y
|−1　　|−1　　|−1
G　4　M　2　X

Same as

S　T　A　T　U　E
|−1　|−1　　|−1
R　S　1　S　5　2
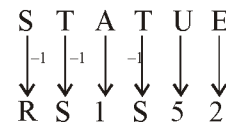
Logic :　　　Consonet = − 1,
　　　　　Vowel number - A, E, 1, 0, U,
　　　　　　　　　　　　　1　2　3　4　5

9. (B) Y = 50
　　$25 \times 2 = 50$
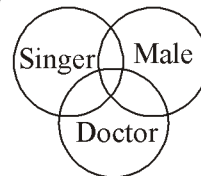　　S E A = 50
　　$(19 + 5 + 1) \times 2 = 50$
　　Same as
　　Y A C H T = ?
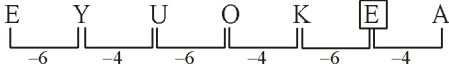　　$(25 + 1 + 3 + 8 + 20) \times 2 = ?$
　　$57 \times 2 = ?$
　　$114 = ?$

10. (D)

Singer｜Male
Doctor

11. (A)

E   Y   U   O   K   E   A
   –6   –4   –6   –4   –6   –4

logic : (–6, –4)

12. (A) 121 : 145 :: 49 : 65 :: 169 : ?

$11^2 = 121$

$11^2 + (11 \times 2) + 2 = 145$,

$7^2 = 49$

$7^2 + (7 \times 2) + 2 = 65$

Same as

$13^2 = 169$

$13^2 (13 \times 2) + 2 = \textbf{197}$

13. (C) $\dfrac{7}{50} : \dfrac{9}{82} :: \dfrac{13}{170} : ?$

$7^2 + 1 = 49 + 1 = 50$

$9^2 + 1 = 81 + 1 = 82$

$13^2 + 1 = 169 + 1 = 170$

Simiarly $15^2 + 1 = 225 + 1 = 226$
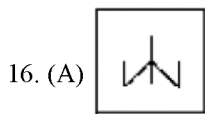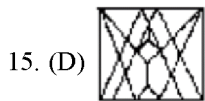
14. (D) $18 + 13 - (14 + 12) = 31 - 26 = 5$

$39 + 9 - (33 + 10) = 48 - 43 = 5$

Same as

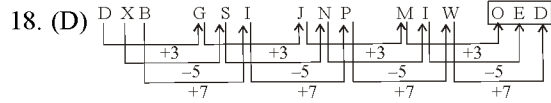$7 + 4 - (2 + x) = 11 - 2 - x = 5$

$11 - 2 - 5 = x$

$x = 4$

15. (D)

16. (A)

17. (C)

23   115   207
   ×5
        ×9

Same as

16   80   144
   ×5
        ×9

Logic : (multiply ×5, ×9)

18. (D)

Logic : (+3, –5, +7)

19. (D)

Chair — wood — Furniture

Neither I nor II

20. (D)

@$#⊙

21. (A)

I   N   S   P   I   R   E
+1   +2   +3   +4   +5   +6   +7
J   P   V   T   N   X   L

Same as

P   E   R   S   I   S   T
+1   +2   +3   +4   +5   +6   +7
Q   G   U   W   N   Y   A

22. (A)

D is sitting between A and B

23. (A)

35   52   75   110   151   204
   17   23   35   41   53
     6   12   6   12
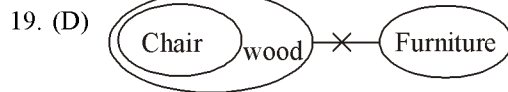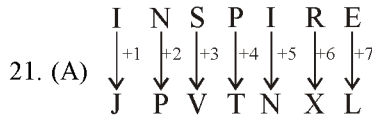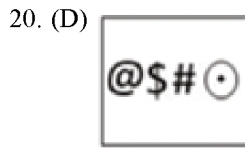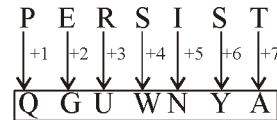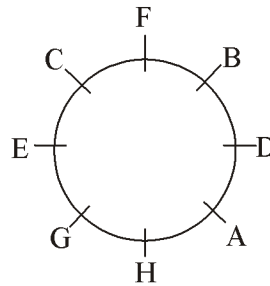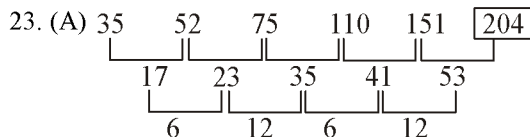
Logic : Double difference

24. (D) TSRᵧLJ₁₉I₇₄₃C
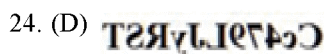
25. (B)
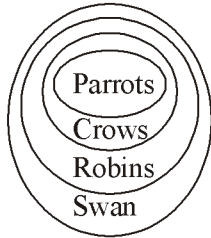
26. (C) 6 @ 4 @ 1 = 22
(6+4+1)×2 = 22
5 @ 1 @ 5 = 22
(5 + 1 + 5)×2 = 22
3 @ 5 @ 3 = ?
(3 + 5 + 3) × 2 = **22**

27. (A) cd <u>d</u> de| <u>c</u> dd <u>d</u> e| cdd <u>d</u> e|
dcdd
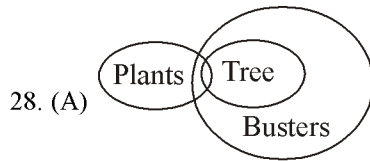
28. (A)

Only I follow.

29. (A)

given figure is embedded option (A)

30. (C) If
CAB = 12,
(3+1+2) = 12
6×2 = 12
FED = 30
(6+5+4)×2=30
15×2=30
Similarly
HIDE = ?
(8+9+4+5)×2=?
26×2=?
52 = ?

55 Moct Test

SOLUTION

1. (A) In the figure, the sheet of paper is being first folded along the horizontal line of symmetry so that lower half of the sheet overlaps the upper half and then it is folded further to a quarter and then punched. When it opens, it looks like final figure given here.
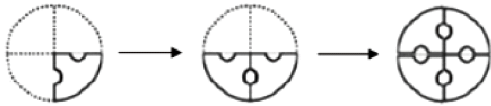
2. (C) As Sugar and Jaggery are Sweet and Salt has no relation with Sweet, the Logical Venn diagram will be,

3. (B) For option B,

     69 --- A

     22 --- N

     99 --- I

     56 --- M

     03 --- A

     23 --- L

     ® ANIMAL

4. (B) Here the logic is,

Difference between first and third row = difference between second and third row.

54 – 36 = 18 and 72 – 54 = 18

66 – 44 = 22 and 88 – 66 = 22
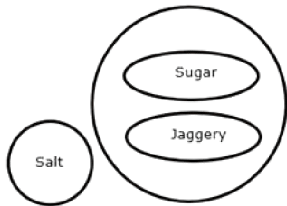
Similarly,

? – 32 = 64 - ?

Therefore ? = (64 + 32) / 2 = 48

5. (A) 2 × (361 – 289) = 144

2 × (81 – 49) = 64

6. (B) Following 6's are - 369, 369, 366

7. (D) Only I follows.

8. (C) 1st letter - T (-3) Q (-3) N (-3) K (-3) H

2nd letter - U (-3) R (-3) O (-3) L (-3) I

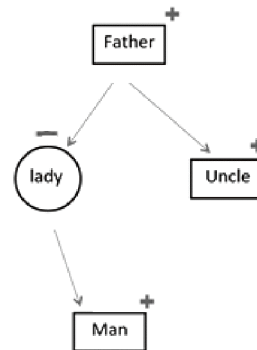3rd letter - S (-3) P (-3) M (-3) J (-3) G

9. (D)
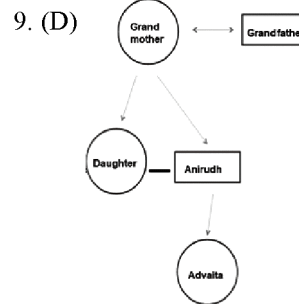
From the diagram, it is clear that Anirudh is the father of Advaita.

10. (B) The words are of opposite pairs.

Minimum and maximum are opposite to each other.

Similarly, Worst and best are opposite to each other.

11. (A)

Clearly, the lady is the man's mother.

12. (D) G → (+3) → J

R → (−3) → O

E → E

A → (+9) → J

T → (−9) → K

Similarly,

Z → (+3) → C

E → (−3) → B

B → B

R → (+9) → A

A → (−9) → R

So, the code of ZEBRA is CBBAR.

13. (C) None follow.

14. (A) P - $ R - #

I - @   N - *

T - !   E - &

R - #

So, the code for INTERPRETER is -

I - @   N - *

T - !   E - &

R - #   P - $

R - #   E - &

T - !   E - &

R - #

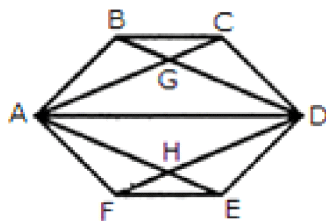15. (A) 5. Rigid   3. Ringer

2. Rip   1. Ripe

4. Room

5, 3, 2, 1, 4

16. (A) Both A and R are true and R is the correct explanation of A.

17. (D) The figure can be represented as follows:

In this figure, the quadrilaterals are ABCD, ABDE, ABDF, ABDH, CDHA, CDEA, CDFA, DEAG, DEFA, FAGD and AGDH.

The number of quadrilaterals in this figure is 11.

18. (D)

Month	Number of days
March	31
April	30
May	31
June	30
July	31
August	31

Days left in March = 31 − 15 = 16

Days in August to count = 28

Thus total number of days from Rohit's birthday to Priya's birthday = 16 + 30 + 31 + 30 + 31 + 28 = 166

Thus number of odd days = 166 | 7 = 5

As Rohit's birthday is on Tuesday, Priya's birthday will on Tuesday + 5 days = Sunday.

19. (C) Converting equation into normal one and applying BODMAS:

7 B 17 C 88 D 11 A 6

7 − 17 + 88 ÷ 11 × 6

7 − 17 + 8 × 6

7 − 17 + 48

7 + 31 = 38

Hence, the correct option is C

20. (A) From 1st and 2nd statements 2 is common, so 2 is coded as home

From 2nd and 3rd statements 6 is common, so 6 is coded as good

From 1st and 3rd statements 5 is common, so 5 is coded as stay

So, In 3rd statement only very is left so it is coded as 3

21. (C) Let us first write down the alphabets and their corresponding position in the English alphabetic series.

B+4 = F   R+5 = W

I+4 =M   G+5 =L

H+4 =L   T+5 =Y

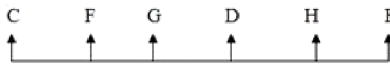The alphabets are adding up by (+4) and (+5) alternatively.
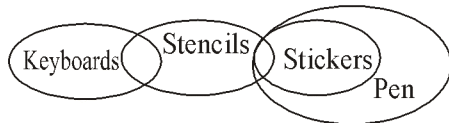
Similarly,

W+4 =A   I+5 =N

N+4 =R   D+5 = I

O+4 =S   W+5 = B

Hence, option C is correct.

22. (B) C   F   G   D   H   E
        ↑   ↑   ↑   ↑   ↑   ↑

23. (B)

Only I follows.

24. (C) It follows this pattern:
176 '→1²|7²|6² '→14936
Similarly,
549 '→5²|4²|9²'→251681
Hence, option C is the correct answer.

25. (A)

26. (D) Arranging the words in the order they appear in dictionary:
iv. Pabloism   ii. Pacable
iii. Pachometer   i. Parachute
Hence, the correct opttion (D)
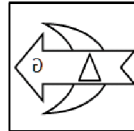
27. (B)

28. (C) Q = 10 (opp. no)
FAX = 50 (sum of opp. no)
F = 21   A = 26   X = 3
So, the code for XEROX is -
X = 3   E = 22   R = 9
O = 12   X = 3
Xerox = 3 + 22 + 9 + 12 + 3 = 49

29. (B) From the option B, we get required word.

30. (D) Refuse : Deny (synonyms) other are antonyms of each other.