EXAMWAR
PUBLICATION

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India's No. 1 Reasoning Teacher

SOLUTIONS
Mock Test (41 to 45)

➢ 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.
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➢ Qualified IBPS PO, SBI PO, in 2016-17.
➢ More than 1500+ videos on YouTube.

Reasoning in My Blood

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www.deepaksir.com

41 Moct Test

SOLUTION

1. (D) $(3, 24, 4) = 3 \times 4 = 12 \times 2 = 24$

   $(4, 72, 9) = 4 \times 9 = 36 \times 2 = 72$

2. (B) $12 - 8 + 12 \times 9 \div 3 = 9$
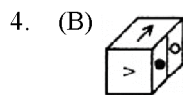
   $12 - 8 \div 12 \times 9 + 3 = 9$

   $12 - \dfrac{8}{12} \times 9 + 3 = 9$
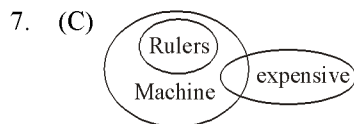
   $12 - 6 + 3 = 9$

   $15 - 6 = 9$

   $9 = 9$

3. (A) $3, \quad 7, \quad 16, \quad 35, \quad \boxed{74} \quad 153$

   $\times 2+1 \quad \times 2+2 \quad \times 2+3 \quad \times 2+4 \quad \times 2+5$

4. (B)

5. (A) Advocate work to Justice

   Same way mediator work to Agreement.

6. (B) $A = 5$ C and A value

   $B = 3$ $7-5 = 4$

   $C = 7$ 2 value = 250
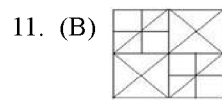
7. (C)

   Only II conclusion follow.

8. (D) 3, 4, 1, 5, 2

   Market, Vegebtables, Buying, Cook, Food

9. (A) 254   217

   $\dfrac{25}{4} \neq$ Not divisilde $\dfrac{21}{7} = 3$

   126   189

   $\dfrac{12}{6} = 2$ $\dfrac{18}{9} = 2$
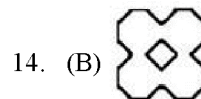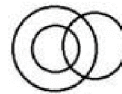
   lgic : Ist Two digit divided by IIIrd digit.

10. (C) G H I J   C F I L

    +1 +1 +1   +3 +3 +3

    P S U X   M O Q S

    +3 +2 +3   +2 +2 +2

11. (B)

    $5 + 5 + 2 + 2 = 14$

12. (C) b c̲ bab b̲ \ bc b̲ abb \ b c̲ ba b̲ b.

    cbbcb.

13. (A) Uncle is a part of Relative (Uncle may be Rich).

14. (B)

    Option (B) figure look like when open it.

15. (A) V I C T O R Y

    -1

    C I V S Y R O

    T R A I T O R

    -1

    A R T H R O T

16. (B) Given perfect mirror image given figure is.

17. (A) $(9, 35, 16) = (3)^2 + (5)^2 = (3 + 4) \times 5 = 35$

    $(36, 55, 25) = (6)^2 + (5)^2 = (6+5) \times 5 = 55$

18. (A)

    F ═══ B$^+$ ── D ═══ E$^+$
    │   │   │   │
    G   A   C$^-$ H$^+$

    'H' is nephew of 'F'

19. (B) 36 : 84 : : ? : ?

$36 = 12 \times 3$

$84 = 12 \times 7$

Same as,

27 : 63

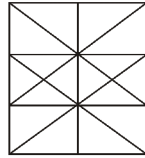$27 = 9 \times 3$

$63 = 9 \times 7$

(logic Ist term multiply 3 and IInd term multiply 7)

20. (D)

C E G I   D F H J

–2 +2 –2 +2   –2 +2 –2 +2

A G E K   B H F L
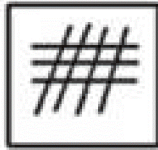
21. (B)

The given figure implicit in option B.

22. (A)

Figure (after each two step line are increased)

23. (A) Book : Encyclopedia

Encylopeadia is a part of book

Same as

Python is a part of Reptile

24. (D) DIG = 4 + 9 + 7 = 20 + 5 = 25

CUT = 3 + 21 + 20 = 44 + 5 = 49

Same as

KICK = 11 + 9 + 3 + 11 = 34+5=**39**

25. (A) Peanut, other three options, crops fortile above the earth and Peanut is under earth crop.

26. (B) 4, 10, 27, 140, ?

4 (2) + 2 = 10

10(3)–3=27

27(5)+5=140

The next number would be

140(7)–7=980–7 = **973**

2, 3, 5 are successive prime numbers.

So, by following the above pattern.

27. (D) Carpet is odd

other three are same category word.

28. (A)

M A S T E R   G O V I N D

$\times 2 \ (1)^2 \ \times 2 \ \times 2 \ (5)^2 \ \times 2 \quad \times 2 \ \times 2 \ \times 2 \ (1)^2 \ \times 2 \ \times 2$

26 1 38 40 25 36   14 225 22 81 28 8

B A C K S P A C E

$\times 2 \ 1^2 \ \times 2 \ \times 2 \ \times 2 \ \times 2 \ 1^2 \ \times 2 \ 5^2$

4 1 6 22 38 32 1 6 25

logic = (Vovel)^2 and (consonent) $\times$ 2

29. (B) ab <u>d</u> ba <u>c</u> b \ abd <u>b</u> acb \ <u>a</u> bdba <u>c</u> b \

d c b a c

30. (C)

P E R M U T A T I O N

–7 –3 –7 –7 –3 –7 –3 –7 –3 –3 –7

I B K F R M X M F L G

P U B L I C S E C T O R

–7 –3 –7 –7 –3 –7 –7 –3 –7 –7 –3 –7

I R U E F V L B V M L K

logic (consonant –7, Vowel –3)

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SOLUTION

1. (A) $15 - 2 \div 6 \times 10 + 5 = 25$

   Put sign option (A)

   $15 - 2 + 6 \times 10 \div 5 = 25$

   $15 - 2 + \dfrac{6 \times 10}{5} = 25$

   $13 + 12 = 25$

   $25 = 25$

2. (B)

   D K F M

   $\downarrow$+2 $\downarrow$−2 $\downarrow$+2 $\downarrow$−2

   F I H K

   B L O P

   $\downarrow$+2 $\downarrow$−2 $\downarrow$+2 $\downarrow$−2

   D J Q N
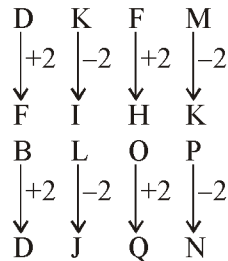
3. (B) cb <u>a</u> db <u>c</u> |cba <u>d</u> bc |<u>c</u> bad <u>b</u> c

   acdcb

4. (C)

   S$^=$══P$^+$──P$^+$

   R$^+$══Q$^-$

5. (C) S U N D A Y

   D N U A Y S

   Similarly

   M O T H E R

   H T O E R M

6. (B) F R I D G E

   $\downarrow$+1 $\downarrow$+2 $\downarrow$+3 $\downarrow$+4 $\downarrow$+5 $\downarrow$+6

   G T L H L K

   K E T T L E

   $\downarrow$+1 $\downarrow$+2 $\downarrow$+3 $\downarrow$+4 $\downarrow$+5 $\downarrow$+6

   L G W X Q K

7. (D)

8. (B)

9. (B)

   I V H U   K X J W

   (−1)   (−1)

   M Z L Y   G E S O

   (−1)   (+10, +12)

10. (B) The watch gains 5 seconds in 3 minutes = 100 seconds in 1 hour.

    From 8 AM to 10 PM on the same day, time passed is 14 hours.

    In 14 hours, the watch would have gained 1400 seconds or 23 minutes 20 seconds. So, when the correct time is 10 PM, the watch would show 10 : 23 : 20 PM

11. (D) 9, 15, 27 same as 12, 20, 36

    (×2−3, ×2−3)   (×2−4, ×2−4)

12. (B)

13. (C)

    M N P S   D E G J

    (1 2 3)   (1 2 3)

    P Q T X   T U W L

    (1 3 4)   (1 2 3)

14. (A) The pattern is:

    ×5

    D I N : T Y D

    4 9 14   20 25 4

    +5 +5   +5 +5

    Similarly,

    ×5

    E J O   Y D I

    5 10 15   25 4 9

    +5 +5   +5 +5

15. (B) 54 × 6 – 7 1137 8 + 2= ?

    54 ÷ 6 × 7 + 8 – 2
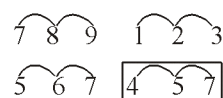
    9 × 7 + 8 – 2

    63 + 6 = 69

16. (A) 29 : 13 : : 37 : ?

    13 × 2 = 26 + 3 = 29

    17 × 2 = 34 + 3 = 37

17. (D)

18. (C) South Korean : Rupiya

    South Korean Currency is Won.

19. (A) Smile : Ecstasy

20. (D) More than 44

21. (B) FLOWER = 14
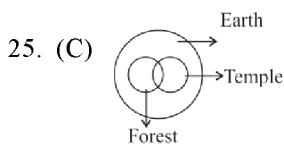
    Total letter = 6, (6 + 1) × 2 = 14

    DISTASTE = 18

    Total letter = 8, (8 + 1) × 2 = 18

    Same as BUREAUCRAT = ?

   Total letter = 10, (10 + 1) × 2 = **22**

22. (B) Hindrance/व्यवधान

23. (C) 5, 3, 2, 6, 1, 4

24. (D) Sumit reached the place 20 minutes before 8.50 hrs, i.e., at 8.30 hrs

    Clearly, the man who was 40 minutes late would reach the place at 9.00 hrs.

    So, the scheduled time of he meeting was 40 minutes before 9.00 hrs, i.e., 8.20hrs

25. (C)

26. (A) Here, numbers are related as

    Three times of Subtraction of first and third number is the second number.

    As, (19, 45, 4) -> (19 - 4 = 15) and 15 ×3 = 45

    And, only option (a) follows this

    (21, 24, 13) -> (21 - 13 = 8) and 8 ×3 = 24

27. (D)
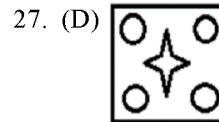
28. (C) As, B.TECH is an undergraduate course and IT and Mechanical are its two branches

    So, the Venn diagram which shows the given relation is:

29. (C)
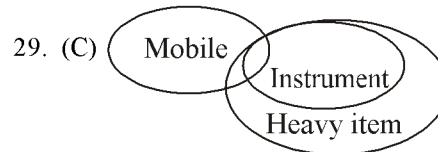
    Only I and III follow
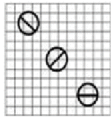
30. (A) Here, letters are related as
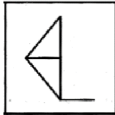

   Similarly,

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SOLUTION

1. (D) The water image is the inverted image obtained by turning the object upside down. The top and bottom part of the image will be changed, while left and right hand side image of the image remains the same.
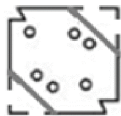
2. (B)

3. (D) If figure, as shown in the alternatives D), is placed in the place of missing portion of the original figure, original is completed and looks like the figure shown below.
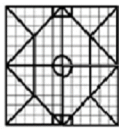
4. (C) The paper is unfolded in two steps that are shown below.
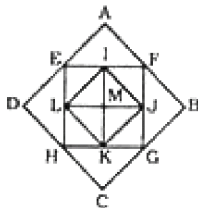   Step-1

5. (D) Except 544, all the three are divisible by 13.

6. (B) The pattern of series is- bacdbc
   The complete series is – bacdbc/bacdbc/bacdbc

7. (D)

The squares are : EFGH, EIML, IFJM, MJGK, LMKH, ABCD, IJKL
There are seven squares.

8. (D) When we write down the symbols in the clockwise direction,
   From the 1st cube: $ % #
   From the 2nd cube: $ @ =
   @ will be opposite to %.

9. (B)

   5 N‾
   4 O‾
   3 Q‾
   2 R‾
   1 P‾

   N, P live Top and ground floor

10. (B) Here the larger rectangle represents the rural people, the circle represents the corrupt people and the smaller rectangle represents the employees.
    Here, the desired area should only fall within the overlapping part of the larger and smaller rectangles.
    Thus, 7 represents the rural workers who are not corrupt.

11. (A) 2 + 2 + (2/2) = 2+2+1 =5
    3 + 3 + (3/3) = 3 + 3 + 1= 7
    3 + 6 + (6/3) = 3 + 6 + 2 = 11
    5 + 25 + (25/5) = 5 + 25 + 5 = 35

12. (C) Given expression is-
    50 + 10 ÷ 25 × 5 – 3
    After interchanging-
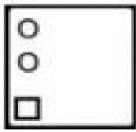   50 - 10 + 25 ÷ 5 × 3
    Solve now,
    40+5*3
    = 40+15=55

13. (B) As,

45=4*5=20

Similarly,

72=7*2=14

14. (D) After carefully observing the figures given in the question, it is very clear that the answer figure(d) will be the next figure.
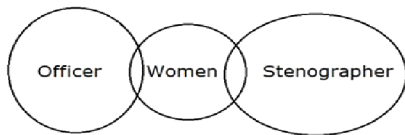

Logic- number of shapes is increasing by +1. It begins to fill from the top left corner, square and circle alternately.

15. (B) It's logic:

16. (B) Women can be officers or stenographers or both. Therefore, the best representation is-

17. (D) Logic is:

Numerator^2-2=denominator

As,

6^2-2=34

8^2-2=62

Similarly,

11^2-2=119

13^2-2=167

18. (D)

19. (C) Reasoning: Number of letters in the word *

2 + 1

As,

REASON=6*2+1=13

And

CHAIR=5*2+1=11

Similarly,

EXAMINATION=11*2+1=23

20. (D) 80, 68, 62, 56, 47, 29

21. (A) Chicken

22. (B)
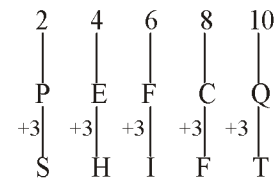
Same as
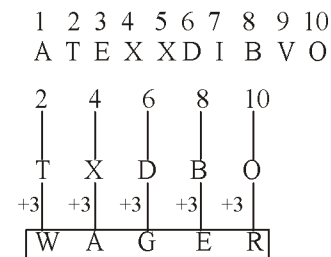
23. (C) The reasoning is: 1st term * 5 = 2nd term, 1st term * 9 = 3rd term

Only the set (7, 35, 56) does not follow the above logic.

24. (B) 1) Examine   4) Example

2) Excited   3) Exclaim

5) Execute

Correct order is-1, 4, 2, 3, 5

25. (B)

26. (C)
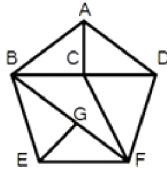

9 triangles in all; ABD, ABC, ACD, DFC, BCF, BDF ,BEF, BEG and EGF.

27. (A) After carefully observing the figures given in the question, it is very clear that the answer figure(c) is embedded in question figure. It is shown as given below:
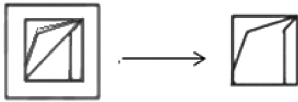
28. (A) It was Monday on 1 January 2018.

2018 has 365 days.

So, odd number of days=365/7=1

So, 31 December 2018 was on Monday.

29. (B)

Option (B) Not follow the pattern

30. (C)

All follow.

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Moct Test

SOLUTION

1. (A) Logic is-

$$G \xrightarrow{+2} I \xrightarrow{+4} M \xrightarrow{+6} S \xrightarrow{+8} A$$

$$D \xrightarrow{+2} F \xrightarrow{+4} J \xrightarrow{+6} P \xrightarrow{+8} X$$
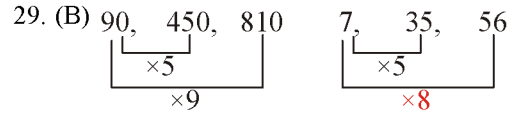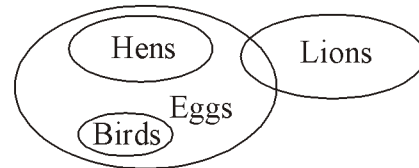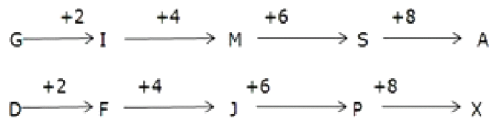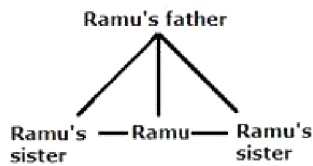
2. (B) ЯƎASOИІИG

3. (A) Only II follows.

4. (B) Both A and R are true but R is not the correct explanation of A.

5. (D) According to the given information;

Ramu's father
Ramu's sister — Ramu — Ramu's sister

Clearly, Ramu doesn't have any brother.

6. (C)

letters	P	A	W	Y
meaning	×	+	÷	−

After changing the symbols,
13 × 3 + 11 − 26 × 6 ÷ 13 + 19
(applying BODMAS)
13 × 3 + 11 − 2 × 6 + 19
39 + 11 − 12 + 19
50 − 12 + 19
69 − 12
57

7. (D)
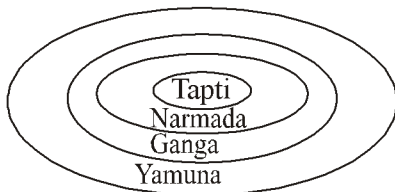
Tapti
Narmada
Ganga
Yamuna

Only I follow.

8. (A)

13   40   121
   ×3+1   ×3+1

Same as

5   16   49
   ×3+1   ×3+1

9. (D) Shila is the daughter in law of Riya's mother in law that means mother in law of Shila and Riya is same.
This implies Riya and Shila are sisters in law.

Mother
mother in-law → ← mother in-law
Riya(−) = Riya's(+) — Younger = Shila(−)
husband   brother(+)
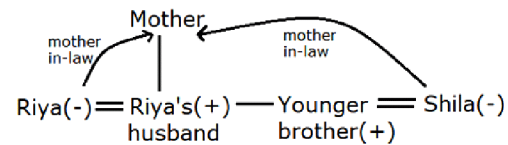
So, Riya is the sister-in-law of Shila.

10. (B)

O   U   T   L   I   N   E
5   1   3   2   9   4   6

Similarly

T   O   O   L   I   T   T   L   E
3   5   5   2   9   3   3   2   6

Logic : put common letter code value.

11. (A) Let X be the starting point, from where Amitabh started his journey.
The path traverse by Amitabh is as follows:

A ←15 m— X
20 m↓
B —15 m→ C
          12 m↓
          D
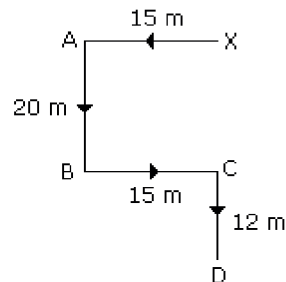
Now, Amitabh is at position D.

Clearly, Required distance = 12 + 20 = 32m

Also, he is in South direction from X.

12. (D) Only I follow.

13. (B) The alphabets are coded as follow.

D	E	L	H	I
K	I	H	T	R

M	U	M	B	A	I
P	E	P	S	Q	R

We will deduce the code for AHMEDABAD from these two coding.

A	H	M	E	D	A	B	A	D
Q	T	P	I	K	Q	S	Q	K

14. (D) From positions 1 and 2,

1, 3, 2, 4 will be the side face of 5.

Therefore, 6 will be the opposite of the face 5.

15. (D)

$$23, \quad 24, \quad 50, \quad 153, \boxed{616,} \ 3085$$
$$\underset{\times 1+1}{} \quad \underset{\times 2+2}{} \quad \underset{\times 3+3}{} \quad \underset{\times 4+4}{} \quad \underset{\times 5+5}{}$$

16. (A) Logic : Middle term is completely divisible by the sum of first and last term.

As,

24 is completely divisible by (5+7=12).

Similarly,

80 is completely divisible by (8+12=20).

17. (C) "Brussels" is the capital of "Belgium" in the same way "Canberra" is the capital of "Australia".

18. (B) In this question we shows that first number is multiply by 3 and second number is divide by 2 and alternatively repeated continue

$12 \times 3 = 36$

$36 \div 2 = 18$

$18 \times 3 = 54$

$54 \div 2 = 27$

$27 \times 3 = ?$

$? = 81$

19. (C) 95 : 105 :: 89 : ?

100 – 5 : 100 + 5 :: 100 – 11 : 100 + 11

95 : 105 :: 89 : 111.

20. (A) After observing the given diagram carefully,

15 will be opposite to 74.

25 will be opposite to 20.

55 will be opposite to 99.

Therefore, figure given in option A cannot be made based on the unfolded cube in the question figure.

21. (C) The second number is seven times the first number except in case of option (c)

$49 \times 7 = 343$

$21 \times 7 = 147$

$25 \times 7 = 175$

But, $16 \times 6 = 96$

22. (A) FPK = F is 6th alphabet in English. P is 16th alphabet. K is (6+16)/2=11th alphabet.

ISN= I is 9th alphabet in English. S is 19th alphabet. N is (9+19)/2=14th alphabet.

MYS= Same formula applied for MYS

HXN= H is 8th alphabet in English. X is 24th alphabet. N is not (8+24)/2=16th alphabet, it's 14th alphabet.

So, HXN is different from others three.

23. (C)

24. (D)

Symbol	+	−	×	÷
Meaning	×	+	÷	−

Given equation: 72 × 9 – 14 + 2

On changing the symbols: 72 9 + 14 × 2

On applying BODMAS, we get,

8 + 28 = 36

25. (C) (5 + 2) × 2 – 10 = 16

(5 – 2) × 2 + 10 = 16

3 × 2 + 10 = 16

6 + 10 = 16

26. (A) Let us first write down the alphabets and their corresponding positions in the English alphabet.

Move forward three steps each of the first, third and fifth characters of the word to get the corresponding characters of the code. While three steps backward each of the second, fourth and sixth characters i.e.

HEATER will be coded as KBDQHO. Similarly, CORNER will be coded as FLUKHO.

27. (D) After arranging the words,

a), e), d), b), c)

28. (C) Code of the given letters are as follows:

C E N T R A L
A B C D E F G

and

P L A N E T A R I U M
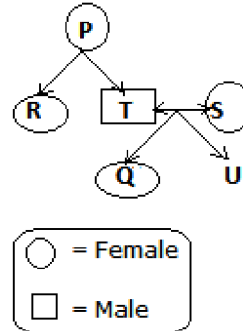H G F C B D F E I J K

Using the above letter codes we get,

$L \rightarrow G$

$A \rightarrow F$

$N \rightarrow C$

$T \rightarrow D$

$E \rightarrow B$

$R \rightarrow E$

$N \rightarrow C$

LANTERN will be written as GFCDBEC.

29. (C)

It is clear from the above diagram, that S is the wife of T.
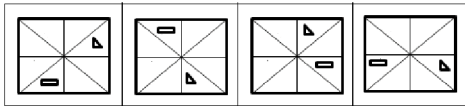
30. (D)

45 Moct Test

SOLUTION

1. (A)
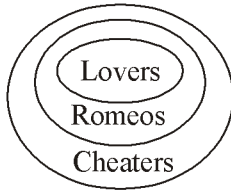
Only II follow.

2. (B) Triangle shape moves 2 places clock-wise and 3 places anti-clock wise direction alternately and rectangle shape moves 3 places in clock wise direction.
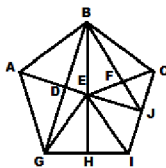

3. (C) If we divide the sequence in 2 parts of 6 alphabets each:

1) S_RTR_

2) S T_T_S

It appeared to be same, therefore the missing alphabets are: **TSRR**

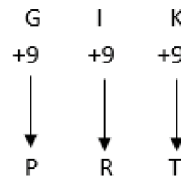Hence, the correct option is **C** and the sequence is **STRTRSSTRTRS**
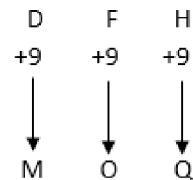
4. (B)

The triangles formed in the above figure –
ADB, ADG, ABG, AEG, AEB, ABJ, BDJ, BED, GED, BEF, BEC, BFC, BEJ, BCJ, CFJ, EFJ, CEJ, CEI, EJI, GEI, GEH, HEI and BGH.

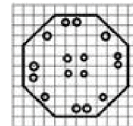The number of triangles is **23**.

5. (B)

G   I   K
+9 +9 +9
↓   ↓   ↓
P   R   T

Similarly,

D   F   H
+9 +9 +9
↓   ↓   ↓
M   O   Q

Thus DFH is related to MOQ.

6. (C) In the figure, the sheet of paper is first folded along the vertical line of symmetry so that right half of the sheet overlaps the left half and then it is folded further to a quarter and then punched. When it opens, it looks like

7. (B) 4,   10,   27, 140, 973
     ×2+2 ×3–3 ×5+5 ×7–7

8. (A)

As,

PEAR = 16, 5, 1, 18 = 1+6, 5, 1, 1+8=7519
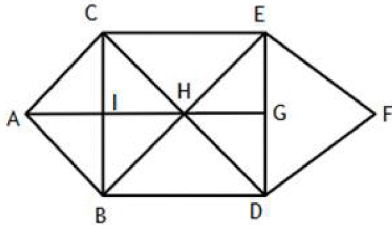
and

TOIL = 20, 15, 9, 12 = 2+0, 1+5, 9, 1+2=2693

Similarly

DOCTOR = 4, 15, 3, 20, 15, 18 = 4, 1+5, 3, 2+0, 1+5, 1+8=463269

9. (C)

There are total 18 squares in all; ABC, AIB, AIC, CIH, BIH, BCH, BCE, HCE, BDH, EDH, BDE, HEG, DHG, DEF, DCE, BDC, ACH, ABH

10. (D) Logic is-

$3 \times 9 = 27$

$27 \times 9 = 243$

$243 \times 9 = 2187$

$2187 \times 9 = 19683$

11. (D) As,

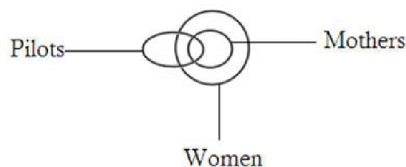**81 : 63**

$(8 + 1) \times (8 " 1) = 63$

Similarly,

74 : 33

$(7 + 4) \times (7 " 4) = 33$

12. (D)

After carefully observing the figures given in the question, it is very clear that the answer figure(D) will be the next figure.

Hence, the correct answer is option D.

13. **(C)** All mothers are Women. Both can be pilots.

So, the best representation is-

14. (C) As it is punched in a book-folding manner and then again it gets punched. So, when we open it up there will be figure as shown in option(c).

15. (C) Except 6394, all follow the logic-

Product of first two digits is equal to the product of last two digits.
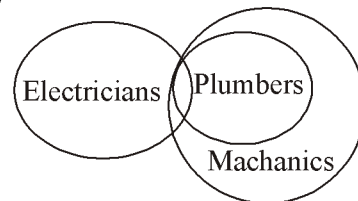
for example:

$3864 = 3 \times 8 = 6 \times 4$

16. (A) As per the given information,
X and Y are brothers and A is brother of X and both A and B are couples that means B is female and married to A. So, Y is brother in-law of B.
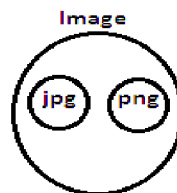
17. (D)

18. (D) Moving in the clockwise direction,
Cube 1 – 3 5 6
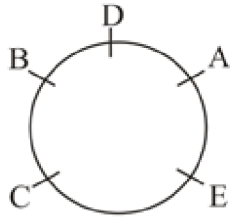Cube 2 – 3 4 2
Clearly, 1, is the opposite of 3.

19. (D) Jpg and png are two different format of image/photo.
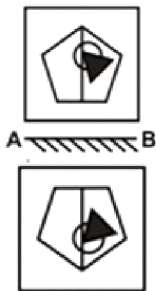

Here the best representation is-

20. (C)

  B C

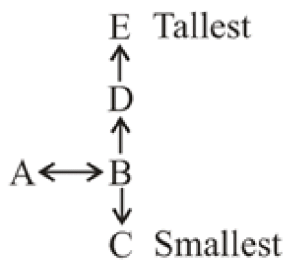21. (D) The mirror image for the given figure is,

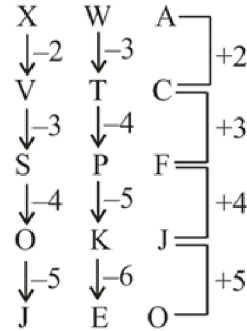22. (A) Trucks and bikes are subsets of automobile.

23. (A) $15 + 24 \div 3 - 6 = 17$

  $17 = 17$

24. (A)

E Tallest

D

A ⟷ B

C Smallest

25. (B)

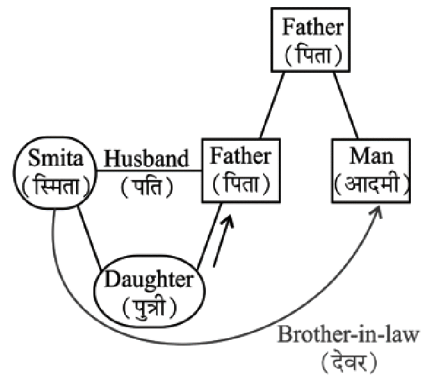26. (D) COSMET (S letter is not given the word)

27. (B) DEPRIVE (mirrored)

28. (D) $4^2 + 3^2 + 2^2 + 2^2 = 16 + 9 + 4 + 4 = 33$

  $4^2 + 3^2 + 2^2 + 5^2 = 16 + 9 + 4 + 25 = 54$

  $2^2 + 6^2 + 5^2 + 4^2 = 4 + 36 + 25 + 16 = 81$

29. (B)

30. (D) 89   55   57   04

   L   I   K   E