

Date: 03/11/2019

Max. Marks: 100

## SOLUTIONS

Time allowed: 120 mins

1. Choose the correct alternative to fill missing term/terms in the given series.

A, Z, D, W, P, K, M,.....

(A) M

(B) N

(C) L

(D) T

Ans. (B)

Sol. A, Z, D, W, P, K, M, N

1 26 4 23 16 11 13 14

Sum 27 27 27 27

2. YEB, WFD, UHG, SKI, .....

(A) QGC

(B) TCL

(C) QOL

(D) None of these

Ans. (C)

Sol. YEB, WFD, UHG, SKI, QOL

Y W U S Q

25 23 21 19 17

-2 -2 -2 -2

E F H K O

5 6 8 11 15

+1 +2 +3 +4

B D G I L

2 4 7 9 12

+2 +3 +2 +3

3. \_\_\_\_\_,siy, oeu, kag

(A) wnc

(B) wnb

(C) wmc

(D) None of these

Ans. (D)

Sol. w s o k g c

23 19 15 11 7 3

-4 -4 -4 -4 -4

m i e a w s

13 9 5 100 23 19

27 -4 -4 -4 -4

y u q n i

25 21 17 14 9

-4 -4 -4 -4

4. asbaccaba aab cca\_aa\_a\_ac  
 (A) ababab (B) aabbab (C) aaabab (D) abbaba

Ans. (C)

Sol. aabaccaba aaabaccabaaabac

5. B, D, H, N  
 (A) V (B) U (C) W (D) M

Ans. (A)

Sol. B D H N V  
 $\begin{matrix} 2 & 4 & 8 & 14 & 22 \\ \underbrace{\hspace{1.5cm}}_{+2} & \underbrace{\hspace{1.5cm}}_{+4} & \underbrace{\hspace{1.5cm}}_{+6} & \underbrace{\hspace{1.5cm}}_{+8} & \end{matrix}$

6. 3, 7, 6, 5, 9, 3, 12, 1, 15.....  
 (A) 18 (B) -1 (C) 13 (D) None of these

Ans. (B)

Sol.  $\begin{matrix} 3, & 7, & 6, & 5, & 9, & 3, & 12, & 1, & 15, & \boxed{-1} \\ \underbrace{\hspace{1.5cm}}_{-2} & \underbrace{\hspace{1.5cm}}_{-2} & \underbrace{\hspace{1.5cm}}_{-2} & \underbrace{\hspace{1.5cm}}_{-2} & \end{matrix}$

7. 2, 3, 16, 5, 6, 49, 8, 9.....  
 (A) 56 (B) 64 (C) 96 (D) 100

Ans. (D)

Sol.  $\begin{matrix} 2, & 3, & 16, & 5, & 6, & 49, & 8, & 9, & \boxed{100} \\ \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+3} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 4^2 & & 7^2 & & & & & & 10^2 \end{matrix}$

8. 9, 25, 49, 121,.....  
 (A) 225 (B) 169 (C) 196 (D) 144

Ans. (B)

Sol.  $\begin{matrix} 9, & 25, & 49, & 121, & 169, \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 3^2 & 5^2 & 7^2 & 11^2 & 13^2 \end{matrix}$

9. 4A, 25B, 100C, 289D,.....  
 (A) 922E (B) 676E (C) 355E (D) None of these

Ans. (B)

Sol. 4A, 25B, 100C, 289D, **676E**

$\begin{matrix} 4, & 25, & 100, & 289, & 676 \\ 2^2 & 5^2 & 10^2 & 17^2 & 26^2 \\ \underbrace{\hspace{1.5cm}}_{+3} & \underbrace{\hspace{1.5cm}}_{+5} & \underbrace{\hspace{1.5cm}}_{+7} & \underbrace{\hspace{1.5cm}}_{+9} & \end{matrix}$

A, B, C, D, **E**

10. BD8, DF24, FH48,.....

(A) HJ64

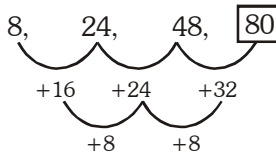
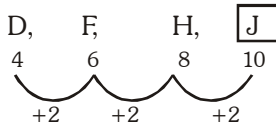
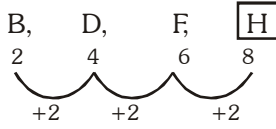
(B) HJ84

(C) H80

(D) HJ80

Ans. (D)

Sol. BD8, DF24, FH48, HJ80



**Direction (Q.11 to Q.12) :** In the given question two word/terms are given in the left of :: sign. They have certain relationship between them. The same relationship exists between the word/term given to the right of :: sign and one of the given alternatives choose the correct alternative.

11.  $3 : 3 :: \frac{3}{8} : ?$

(A)  $5\frac{3}{8}$

(B)  $5\frac{1}{8}$

(C)  $5\frac{1}{8}$

(D) None of these

Ans. (A)

Sol.  $a : b :: c : d$

$$a \times d = b \times c$$

$$\Rightarrow 3x = 3\frac{3}{8} \times 5$$

$$\Rightarrow 3x = \frac{27}{8} \times 5$$

$$\Rightarrow x = \frac{27}{8} \times 5 \times \frac{1}{3}$$

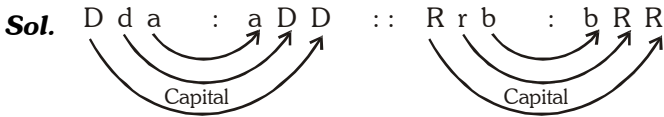
$$\Rightarrow x = \frac{45}{8}$$

$$\Rightarrow x = 5\frac{5}{8}$$

12. Dda : aDD :: Rrb : ?

- (A) RRb (B) DDA (C) LRR (D) BBr

Ans. (C)



13. Choose the correct alternative in which two words are same relationship as between the words in the left of ; :

- (A) Prose : Novelist (B) Author : Book (C) Novel : Prose (D) None of these

Ans. (B)

Sol. Poet : Verse :: **Author : Book**

Direction (Q.14 to Q.15) : In the group of words given below all except one, share a common similarity. Select the odd one.

14. (A) Biscuit (B) Bread (C) Milk (D) Khakhara

Ans. (C)

Sol. All are Snacks except Milk

15. (A) Rupees (B) Dollar (C) Lira (D) Ghana

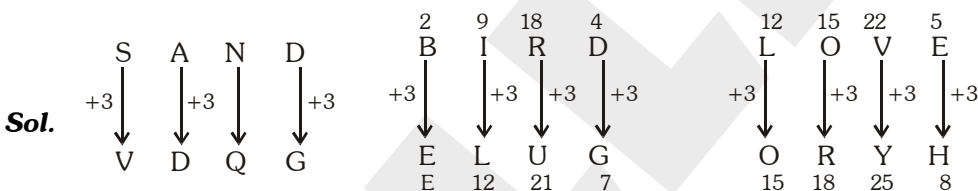
Ans. (D)

Sol. All are currency except Ghana

16. If in a code language SAND is written as VDQG and BIRD is written as ELUG, then LOVE will be written as

- (A) ORTG (B) NPUH (C) PRYG (D) QRYH

Ans. (D)



Direction (Q.17 to Q.18) :

If in certain language :

- (i) Traders are above law is written as 'lop eop fop'
- (ii) Developers were above profitable is written as 'fop cop bop gop'
- (iii) Developers stopped following traders is written as 'aop bop uop qop'
- (iv) Following maps were laws is written as 'cop jop eop uop'

Sol. Traders are above law is written as 'lop eop fop' - lop eop aop fol  
Developers were above profitable = fop cop bop gop  
Developers stopped following traders = aop bop uop qop  
Following maps were laws is written as 'cop jop eop uop'

Traders = aop	Developers = bop
are = lop	were = cop
above = fop	profitable = gop
laws = eop	stopped = qop
maps = jop	following = uop

17. Developers are following laws' would be written as

- (A) bop cop uop eop      (B) lop bop eop uop      (C) aop cop lop qop      (D) None of these

**Ans. (B)**

**Sol.** lop bop eop uop

18. 'qop gop cop eop' would correctly mean.

- (A) Profitable laws were stopped      (B) Developers stopped following laws  
 (C) Traders were above profitable      (D) None of these

**Ans. (A)**

**Sol.** Profitable laws were stopped

19. If in a code language, 'GO' is coded as 32 and 'SHE' is coded as 49, then what will be the code for 'SOME'?

- (A) 56      (B) 58      (C) 62      (D) 64

**Ans. (A)**

**Sol.** Using the pattern

B	G	L	Q	Y
↓	↓	↓	↓	↓
25	20	15	10	5

The word Go can be coded as

G	O
↓	↓
20	+12=
32	

asd SHE = as

S	H	E
↓	↓	↓
8	+ 19	+ 22
= 49		

Similarly some can be coded as

S	O	M	E
↓	↓	↓	↓
8	+ 12	+ 14	+ 22
= 56			

20. If in code language 'FITER' is coded as 'GUJFS', then 'GOATS' will be coded as :

- (A) OGBUT                      (B) HPBUT                      (C) HNBUT                      (D) FPBUR

Ans. (2)

Sol.

6	9	20	5	18
F	I	T	E	R
↓	↓	↓	↓	↓ +1
G	J	U	F	S
7	10	21	6	19
7	15	1	20	19
G	O	A	T	S
↓ +1	↓ +1	↓ +1	↓ +1	↓ +1
H	P	B	U	T
8	16	2	21	20

21. While introducing a lady, a man said "Her mother is the only daughter of my mother-in-law". What is the relation of the man with lady?

- (A) Son                      (B) Brother                      (C) Husband                      (D) Father

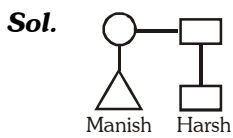
Ans. (D)

Sol. Since the mother-in-law of the man is the mother of the lady therefore the lady is the daughter of the man.

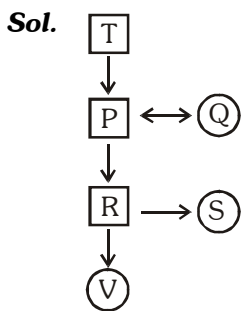
22. A woman Manish asked a man Harsh, "You are the brother of my uncle's daughter." How is Harsh related to Manish?

- (A) Cousin                      (B) Son                      (C) Brother-in-law                      (D) Nephew

Ans. (A)



Direction (Q.23 to Q.25) : P, Q, R, S, T and U are members of a six family, R is son of P and Q. S is grand daughter of T. U is grand daughter of Q, P is the only son of his father T.



23. Which of the following are husband wife?

- (A) P, S                      (B) T, U                      (C) P, Q                      (D) R, U

Ans. (C)

24. How many female members are there in the family?

- (A) P, S                      (B) T, U                      (C) P, Q                      (D) R, U

Ans. (B)

25. Who is daughter of P?

- (A) Q (B) R (C) S (D) U

**Direction (Q.26. to Q.28) :**

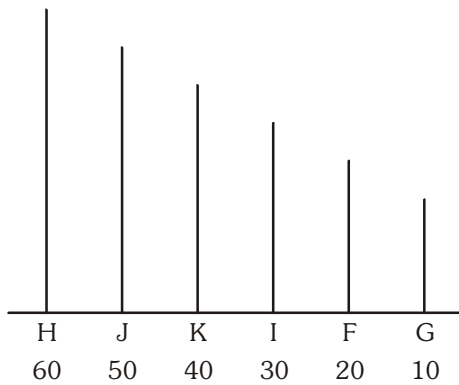
- (i) F, G, H, I, J, K are six numbers.  
(ii) These numbers are distinct.  
(iii) K is greater than F.  
(iv) F is greater than G.  
(v) I is less than J but greater than F.  
(vi) J is greater than K but less than H.  
(vii) The largest number is 60 and difference between two consecutive numbers is 10.  
(viii) K and F are two consecutive numbers.

26. The largest number is

- (A) H (B) G (C) F (D) K

**Ans. (A)**

**Sol.**



27. Difference between the numbers J and F is

- (A) 10 (B) 20 (C) 30 (D) 40

**Ans. (C)**

**Sol.** 30

28. Which number is least?

- (A) J (B) G (C) K (D) F

**Ans. (B)**

**Sol.** G

29. If

P is taller than Q

R is shorter than P

S is taller than T but shorter than Q,

Who among them is tallest?

- (A) P (B) Q (C) S (D) T

**Ans. (A)**

**Sol.** P > Q

P > R

Q > S > T

**30.** Five girls part in a race, Rajshri finished before Mohila but behind Gaura, Ashma finished before Mohil but behind Gaura. Ashma finished before sangeeta but behind Mohil. Who won the race?

- (A) Rajshree                      (B) Gaura                      (C) Mohil                      (D) Data inadequate

**Ans. (B)**

**Sol.** Gaura

Mohila

Ashma

Sangeeta

**31.** Five persons are sitting in a row. One of the two persons at the extreme ends is intelligent and other one is fair. A fat perons is sitting to the right of a weak person. A tall person is to the left of the fair person and the weak person is sitting between the intelligent and fat person. Which of them is sitting at the center?

- (A) Intelligent                      (B) Fat                      (C) Fair                      (D) Weak

**Ans. (B)**

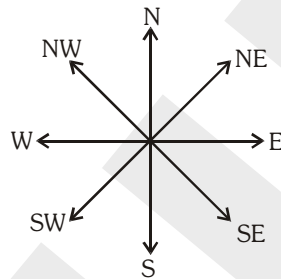
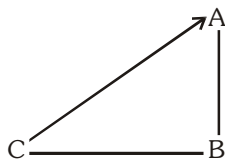
**Sol.** Fat

**32.** If A is to the north of B and C is in the west of B. Then in what direction A with respect to C /

- (A) North-east                      (B) East                      (C) South-west                      (D) West

**Ans. (A)**

**Sol.**

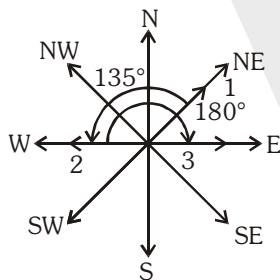


**33.** A person stands facing north east. He first turns  $135^\circ$  anticlockwise then after  $180^\circ$  clockwise. Then in what direction is he facing now?

- (A) East                      (B) West                      (C) North                      (D) South-West

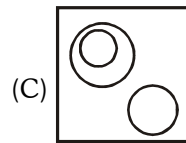
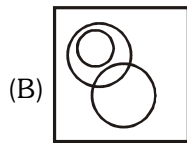
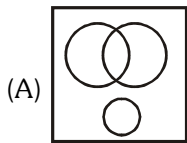
**Ans. (A)**

**Sol.**



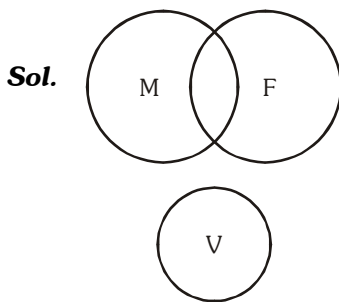


34. In a dinner, fish and meat both were served. Some ate only meat, some ate only fish and some ate both. The rest were vegetarians who did not either. Which of the following logical Venn-diagrams correctly illustrate this situation?

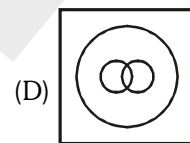
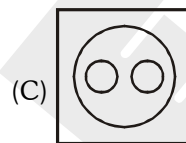
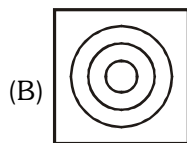
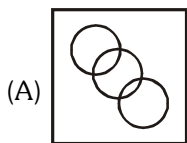


(D) None of these

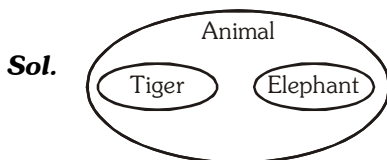
Ans. (A)



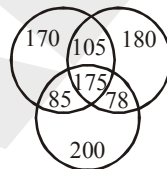
35. Which of the given Venn-diagrams denotes correct connection between the given classes. Tiger, Animal Elehant



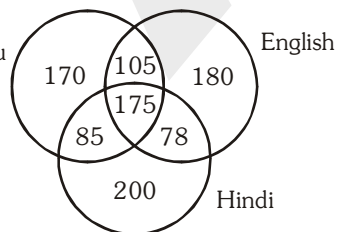
Ans. (C)



Direction (Q.36 to Q.38) : A result of a survey of 1000 persons with respect to their know all the three languages?



Sol. Q.36 to Q.38) : Urdu



36. (A) 175/1000 (B) 7/550 (C) 1/25 (D) 1/27

**Ans. (C)**

**Sol.** Those who don't know = 1000 - 993  
any of three = 7

$$\text{Ans.} = \frac{7}{175} = \frac{1}{25}$$

37. What is the ratio of those who know both Urdu and English to those who know only Hindi?

- (A) 5/7 (B) 7/5 (C) 21/40 (D) None of these

**Ans. (B)**

**Sol.** Those who known both Urdu and English  
= 105 + 175 = 280

$$\frac{280}{200} = \frac{14}{10} = \frac{7}{5}$$

38. Which language do most people know?

- (A) Hindi (B) Urdu (C) English (D) Hindi and English

**Ans. (D)**

**Sol.** U = 535

E = 538

H = 538

39. What is unit digit in  $[(264)^{102} + (264)^{103}]$

- (A) 1 (B) 6 (C) 0 (D) None of these

**Ans. (C)**

**Sol.**  $(264)^{102} + (264)^{103}$

Cyclicity of 4 = 2

$$\therefore [(264)^2]^{51} + [(264)^2]^{51} \times 264$$

Unit digit = 4      Unit digit  $4 \times 4 = 6$

Unit digit Sum = 4 + 6 = 0

$$40. \frac{\left(3\frac{2}{3}\right)^2 - \left(2\frac{1}{2}\right)^2 \left(3\frac{2}{3} - 2\frac{1}{2}\right)^2}{\left(4\frac{3}{4}\right)^2 - \left(3\frac{1}{3}\right)^2 \left(4\frac{3}{4} - 3\frac{1}{2}\right)^2} =$$

- (A)  $\frac{37}{97}$  (B)  $\frac{74}{97}$  (C)  $\frac{54}{97}$  (D) None of these

**Ans. (B)**

$$\text{Sol.} \frac{\left(\frac{11}{3}\right)^3 - \left(\frac{5}{2}\right)^2}{\left(\frac{19}{4}\right)^2 - \left(\frac{10}{3}\right)^2} \div \left[ \frac{\left(\frac{11}{3}\right) - \left(\frac{5}{2}\right)}{\left(\frac{19}{4}\right) - \left(\frac{10}{3}\right)} \right]$$

$$= \frac{\left(\frac{11}{3} + \frac{5}{2}\right)\left(\frac{11}{3} - \frac{5}{2}\right)}{\left(\frac{19}{4} + \frac{10}{3}\right)\left(\frac{19}{4} - \frac{10}{3}\right)} \div \left[\frac{7}{6} \times \frac{12}{17}\right]$$

$$= \left(\frac{7}{6} \times \frac{12}{17}\right) \left(\frac{37}{6} \times \frac{12}{97}\right) \times \frac{17}{14}$$

$$= \frac{14}{17} \times \frac{74}{97} \times \frac{17}{14} = \frac{74}{97}$$

**41.** If '+' means '×', '×' means '-', '-' means '÷' and '÷' means '+', then

$$8 + 4 \times 9 - 3 + 1 = ?$$

(A) 30

(B) 41

(C) 9

(D) 32

**Ans. (A)**

**Sol.**  $8 + 4 \times 9 - 3 \div 1 = ?$

$$= 8 \times 4 - 9 \div 3 + 1$$

$$= 8 \times 4 - 3 + 1$$

$$= 32 - 3 + 1$$

$$= 33 - 3$$

$$= 30$$

**42.** If '\*' means '+', 'Δ' means '×', '□' means '-' and '∇' means '÷', then

$$24 \nabla 8 \square 3 \Delta 9 * 24 =$$

(A) 24

(B) 3

(C) 1

(D) 0

**Ans. (D)**

**Sol.**  $24 \nabla 8 \square 3 \Delta 9 * 24 = ?$

$$= 24 \div 8 - 3 \times 9 + 24$$

$$= 3 - 3 \times 9 + 24$$

$$= 3 - 27 + 24$$

$$= 0$$

**43.** I reached the station half an hour before the scheduled time of the train. The train arrived at the station at 6:20 O'clock, 1:30 hour's delayed from its scheduled time. When I reached the station?

When I reached the station?

(A) 4:40 O' clock

(B) 5:20 O' clock

(C) 4:20 O' clock

(D) None of these

**Ans. (C)**

**Sol.** train arrived at 6 : 20

Scheduled time = 4 : 50

I reached station at 4 : 20 O'clock

(C) 4:20 O' clock

**44.** In a house a new person enters at every one hour, and at every four hour a person the house. If this process starts at 10 AM, then how many people will be there in the house at 10:30 PM?

- (A) 5 (B) 9 (C) 7 (D) None of these

**Ans. (B)**

**Sol.** 10 AM to 10 PM

Total 12 hours

$$= 12 - 3$$

$$= 9$$

**45.** In a row of 26 students, A is 15th from the left while B is 15th from the right , then how many students are between B and A?

- (A) 3 (B) 2 (C) 1 (D) 0

**Ans. (B)**

**Sol.** 11 B 2 A 11

**46.** A, B, C, D, E are five rivers, A is smaller than but longer than E. C is longest. D is smaller than B but longer than A. Which is the smallest river among them?

- (A) A (B) B (C) D (D) E

**Ans. (D)**

**Sol.**  $C > B > D > A > E$

**47.** Arrange the following in a meaningful sequence of events.

1. Consultation                      2. Illness                      3. Doctor                      4. Treatment  
5. Recovery

- (A) 2, 3, 1, 4, 5 (B) 5, 3, 2, 1, 4 (C) 1, 2, 3, 4, 5 (D) None of these

**Ans. (A)**

**Sol.** 2, 3, 1, 4, 5

**48.** Arrange the following in a meaningful sequence.

1. Face                      2. Skull                      3. Neck                      4. Shoulder

- (A) 1, 2, 3, 4 (B) 2, 3, 4, 1 (C) 2, 1, 3, 4 (D) 1, 3, 4, 2

**Ans. (C)**

**Sol.** Skull → Face → Neck → Shoulder

2, 1, 3, 4

**49.** Raman's salary was decreased by 50% and subsequently increased by 50%. How much did he lose?

- (A) 0% (B) 25% (C) 50% (D) None of these

**Ans. (B)**

**Sol.** % He lose =  $-50 + 50 + \frac{50 + (-50)}{100} = -25\%$

∴ He loose 25% (B)

Formula  $\left[ \text{Net \% change} = x + y + \left( \frac{xy}{100} \right) \right]$

**50.** After six years Akshay's age will be three seventh of his father's age. Ten years ago, the ratio of their ages was 1:5. What is the present age of Akshay's father?

- (A) 45 years                      (B) 48 years                      (C) 50 years                      (D) None of these

**Ans. (C)**

	Akshay	Father
<b>Sol.</b> Present Age	$\frac{3}{7}(x+6) - 6$	x
6 years later	$\frac{3}{7}(x+6)$	(x + 6)
10 years ago	$\frac{3}{7}(x+6) - 6 - 10$	x - 10

$$\left( \frac{\frac{3x}{7} + \frac{18}{7} - 16}{x - 10} \right) = \frac{1}{5}$$

$$\frac{3x}{7} \times 5 - \frac{94}{7} \times 5 = x - 10$$

$$\frac{15x}{7} - x = \frac{470}{7} - 10$$

$$x = 50 \text{ years}$$

Present age of father is 50 years (C)

Direction (From Q.No. 51 to 53) : There are six members in a family who are placed in increasing order of their age. Difference of ages between two youngest members is 5 years. Difference in ages of fourth and fifth is 30 years. Difference of ages of last two members is 3 years. Ages of third and oldest members are 30 years and 68 years respectively. Difference of ages of first and fourth member is 32 years.

**51.** Difference in ages (in years) of second and fourth members is

- (A) 27                      (B) 32                      (C) 5                      (D) 30

**Ans. (A)**

**Sol.** 27

**52.** Ages (in years) of youngest and fifth members are respectively:

- (A) 8, 65                      (B) 3, 65                      (C) 3, 35                      (D) 8, 35

**Ans. (B)**

**Sol.** 3, 65

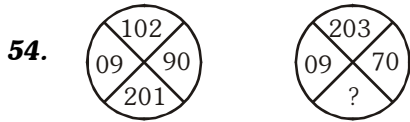
**53.** What is the difference between ages (in year) of oldest and youngest members?

- (A) 68                      (B) 35                      (C) 65                      (D) 30

**Ans. (C)**

**Sol.** 65

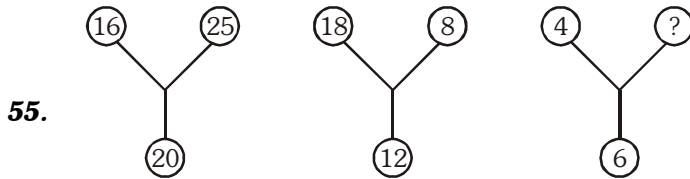
**Direction (From Q. No. 54 to 58) :** Choose the missing number (?) from the given alternatives.



- (A) 280 (B) 303 (C) 362 (D) 382

**Ans. (A)**

**Sol.**  $9 + 102 + 90 = 201$   
 $203 + 7 + 70 = 280$



- (A) 8 (B) 9 (C) 12 (D) 20

**Ans. (B)**

**Sol.**  $\sqrt{16 \times 25} = \sqrt{400} = 20$   
 $\sqrt{18 \times 8} = \sqrt{144} = 12$   
 $\sqrt{4 \times 9} = \sqrt{36} = 6$

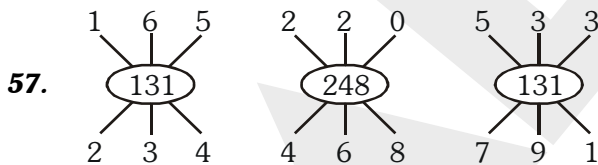
56. 

5	9	7
4	5	3
1	6	8
40	100	?

- (A) 60 (B) 90 (C) 50 (D) 80

**Ans. (C)**

**Sol.**  $(5)^2 + (4)^2 - 1 = 40$   
 $(9)^2 + (5)^2 - 6 = 100$   
 $(7)^2 + (3)^2 - 8 = 50$



- (A) 320 (B) 274 (C) 262 (D) 432

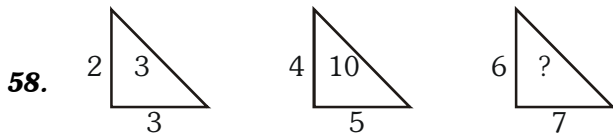
**Ans. (C)**

**Sol.**

$ 2-1 $	$ 6-3 $	$ 5-4 $
↓	↓	↓
1	3	1

$ 4-2 $	$ 6-2 $	$ 8-0 $
↓	↓	↓
2	4	8

$ 7-5 $	$ 9-3 $	$ 3-1 $
↓	↓	↓
2	3	1



(A) 21

(B) 22

(C) 24

(D) 32

**Ans. (A)**

**Sol.**  $\frac{2 \times 3}{2} = 3$

$$\frac{4 \times 5}{2} = 10$$

$$\frac{6 \times 7}{2} = \frac{42}{2} = 21$$

**Direction (From Q.No.59 to 60) :** In each of the following questions an Assertion (A) followed by a Reason (R) is given.

Choose the correct alternative from the following:

- I. If both (A) and (R) are true and (R) is the correct explanation of (A)
- II. Both (A) and (R) are true but (R) is not the correct explanation of (A)
- III. (A) is true but (R) is false.
- IV. (A) is false but (R) is true.

59. Assertion (A): India is a sovereign country.  
Reason (R): Its Parliament is based in Delhi.

(A) I

(B) II

(C) III

(D) IV

**Ans. (B)**

**Sol.** II

60. Assertion(A) : Very few countries can send their satellite on moon.  
Reason (R) : Very few countries have money to send satellite.

(A) I

(B) II

(C) III

(D) IV

**Ans. (B)**

**Sol.** II

**Direction (From Q.No. 61 to 62)**

In each of the following questions one statement and two arguments (I) and (II) are given. Choose the correct alternative from the following :

- (A) Only argument (I) is strong.
- (B) Only argument (II) is strong.
- (C) Neither argument (I) nor argument (II) is strong
- (D) Both the arguments (I) and (II) are strong

**61. Statement :** Should non-vegetarian food be totally banned in our country?

**Arguments:** (I) Yes. It is expensive and therefore it is beyond the means of most people in our country.

(II) No. Nothing should be banned in a democratic country like ours.

**Ans. (B)**

**Sol.** Only argument (II) is strong

**62. Statement :** Should all the foreign banks be asked to close down their operations in India?

**Arguments:** (I) Yes. This is the only way to make the Indian banks survive and prosper.

(II) No. This will have an adverse effect on Indian economy.

**Direction (From Q.No. 63 to 64)**

In each of the following questions one statement and two conclusions (I) and (II) are given. Choose the correct alternative from the following:

(A) Only conclusion (I) follows.

(B) Only conclusion (II) follows.

(C) Both the conclusion (I) and (II) follows.

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

**Ans. (C)**

**Sol.** Neither argument (I) nor argument (II) is strong.

**63. Statement:** Morning walk is good for health.

**Conclusion:** (I) All healthy people go for morning walk.

(II) Evening walk is harmful.

**Ans. (D)**

**Sol.** Neither conclusion (I) nor (II) follows

**64. Statement:** Separate schools are established for boys and girls.

**Conclusion:** (I) Girls are much talkative.

(II) There are difference in studies of boys and girls.

**Ans. (D)**

**Sol.** Neither conclusion (I) nor (II) follows

**Direction (From Q.No. 65 to 66)**

In each of the following questions two statements (I) and (II) are given. There may be cause and effect relationship between the two statements. Read both the statements and mark your answer as.

(A) If statement (I) is the cause and statement (II) is its effect.

(B) If statement (II) is the cause and statement (I) is its effect.

(C) If both the statements (I) and (II) are independent causes.

(D) If both the statements (I) and (II) are effects of independent causes.

**65. Statement:** (I) It is the target of the civic committees of the city to reduce the air pollution 20% in the next two months.

**Statement:** (II) The number of asthma cases in the city is constantly increasing.

**Ans. (D)**

**Sol.** IF statement (II) is the cause and statement (I) is the effect.



**66. Statement:** (I) In the months of summer many people left the city to go to their native place.

**Statement:** (II) Many tourists have conjoined the city in the months of summer.

**Direction (From Q.No. 67 to 71)**

in each of the following questions one question and two statement (I) and (II) are given. You have to decide whether the data provided in the statement are sufficient to answer the questions.

Read both the statements and choose the correct alternative from the following:

- (A) (I) alone is sufficient.
- (B) (II) alone is sufficient.
- (C) Both (I) and (II) together are sufficient but not alone.
- (D) (I) and (II) together are also insufficient.

**Ans. (D)**

**Sol.** If both the statements (I) and (II) are effect of independent cause

**67.** Whether the student Sumit of class 12th is hero of his school?

Statement: (I) Sumit's father donate much to the school.

Statement: (II) Sumit performs best in all programs of school including study.

**Ans. (B)**

**Sol.** (II) alone is sufficient

**68.** The total of presents ages of A, B, C and D is 96 years. What is B's present age?

Statement: (I) The average age of A,B and D is 20 years.

Statement: (II) The average age of C and D is 25 years.

**Ans. (D)**

**Sol.**  $A + B + C + D = 96$

$$(I) \frac{A+B+D}{3} = 20$$

$$A + B + D = 60$$

$$60 + C = 96$$

$$C = 36$$

$$(II) \frac{C+D}{2} = 25$$

$$C + D = 50$$

$$D = 50 - C$$

$$D = 50 - 36$$

$$D = 14$$

Ans (D) (I) and (II) together are also insufficient

**69.** How many teachers are there in the two states C and M?

Statement: (I) C has 2000 less teachers than M.

Statement: (II) M has double teachers of C.

**Ans. (B)**

**Sol.**  $C = M - 2000$  ..... (1)

$M = 2C$  ..... (2)

$C = 2C - 2000$

$C = 2000$

Both (I) and (II) together are sufficient but not alone.

**70.** What is the value of x when  $x.y = 18$ ?

Statement: (I)  $x > y$  and y is an odd number.

Statement: (II) x and y are different from 1.

**Ans. (C)**

**Sol.**  $x,y = 18$

$$\begin{array}{r|l} 2 & 18 \\ \hline 3 & 9 \\ \hline 3 & 3 \\ \hline 1 & 1 \\ \hline & 1 \end{array}$$

$18 = 2 \times 9; (x = 9, y = 2)$

$= 6 \times 6; (x = 6, y = 3)$

Both (1) and (2) are together sufficient but not alone

**71.** R's birthday is on which day of the week?

Statement: (I) R celebrates his birthday after Monday but before Saturday.

Statement: (II) R's sister went for his birthday after Wednesday.

**Ans. (D)**

**Sol.** Tue wed, Thur Fri, Sat

(I) & (II) together are also insufficient.

**Direction (From Q.No. 72 to 73)**

In each of the following questions a statement followed by two courses of action (I) and (II) are given. You have to assume everything in the statement is true, then decide which of the suggested courses of action logically follows.

Choose the alternative:

(A) If only (I) follows.

(B) If only (II) follows.

(C) If both (I) and (II) follows.

(D) If neither (I) nor (II) follows.

**72.** Statement: Rain is continuously getting down.

Courses of action : (I) Cutting tree should be stopped.

(II) Attention should be given on water conservation.

**Ans. (C)**

**Sol.** If both (I) and (II) follows

- 73.** Statement: The officer incharge of a company suspected that some money was missing from the vault.  
 Courses of action: (I) He should get it recounted with the help of staff and check it with the balance sheet.  
 (II) He should inform the police.

**Ans. (A)**

**Sol.** If only (I) follows

**Direction (From Q.No. 74 to 75)**

In each of the following questions one statement and two assumptions (I) and (II) are given. Decide which of the assumptions is implicit in the statement. Give answer:

- (A) If only assumption (I) is implicit. (B) If only assumption (II) is implicit.  
 (C) If either (I) or (II) is implicit. (D) If neither (I) nor (II) is implicit.
- 74.** Statement: "If you break discipline of the school, you will be expelled from the school"- a teacher told to a student.  
 Assumptions: (I) All students do not like discipline.  
 (II) Examination result of the school will be better.

**Ans. (D)**

**Sol.** If neither (I) nor (II) is implicit

- 75.** Statement: It is faster to travel by air from Delhi to Banglore.  
 Assumptions: (I) Banglore and Delhi is connected by air.  
 (II) There are no other means of transport available from Delhi to Banglore.

**Ans. (A)**

**Sol.** If only assumption (I) is implicit

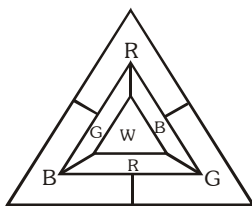
- 76.** A minimum of how many colours will be required to colour the given figure, so that no two adjoining portions in the given figure may have the same colour.



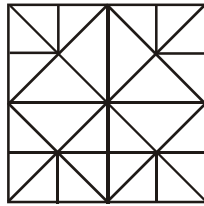
- (A) 2 (B) 9 (C) 3 (D) 4

**Ans. (D)**

**Sol.**



77. Find the number of squares in the given figure:



(A) 9

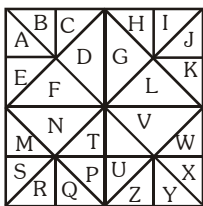
(B) 16

(C) 8

(D) None of these.

Ans. (B)

Sol.



AB, IJ, SR, QP, UZ, XY = 6

FN, DG, LV, OT PU = 4

FGGLVUPON = 1

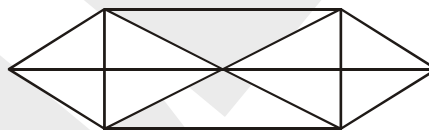
ABCDEF, GHIJKL, TVWXYUZ

MNOPQRS = 4

A to Z = 1

Toal = 6 + 4 + 1 + 4 + 1 = 6

78. How many triangles are there in the following figure?



(A) 21

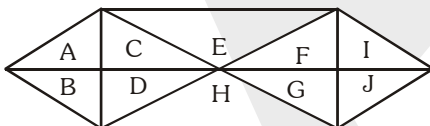
(B) 22

(C) 19

(D) None of these.

Ans. (B)

Sol.



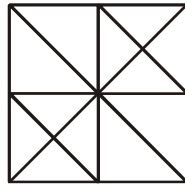
A, B, C, D, E, F, G, H, I, J = 10

AC, CD, BD, AB, FI, IJ, GJ, FG = 8

CDH, FGH, CDE, EFG = 4

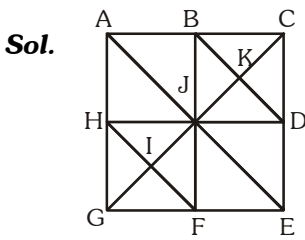
total = 22

79. Find the minimum number of straight lines required to make the given figure



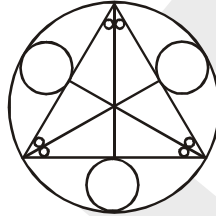
- (A) 10                      (B) 12                      (C) 8                      (D) None of these.

Ans. (A)



Vertical lines = AC, HD, GE, = 3  
 Horizontal = AG, BF, CF = 3  
 Slanting = HF, AE, BD, CG = 4

80. How many circles are there inside the triangle in the following figure?

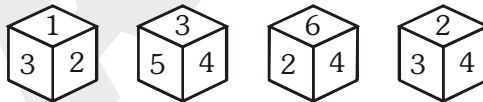


- (A) 9                      (B) 6                      (C) 10                      (D) None of these.

Ans. (B)

Sol. By observation

81. A dice is thrown four times and its four different positions are given below. Find the number on the face opposite to 2.



- (A) 3                      (B) 4                      (C) 5                      (D) 6

Ans. (3)

Sol. From dice (1) 3 - 1 - 2      **2**

From dice (2) 3 - 4 -      **5**



85. Three positions of a dice are shown below. How many dots are contained on the face opposite to that containing four dots?



- (A) 2                                      (B) 3                                      (C) 5                                      (D) 1

**Ans. (C)**

**Sol.** From dice (2)                                      4 – 2 – 1

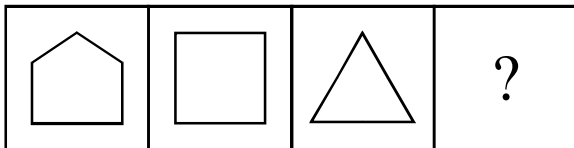
From dice (3)                                      4 – 3 – 6

1 is option to 6

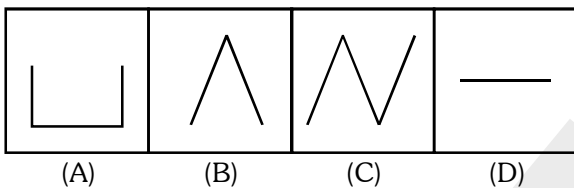
2 is option to 3

4 is option to 5

86. Choose the correct alternative in place of question mark (?), which will continue the series.



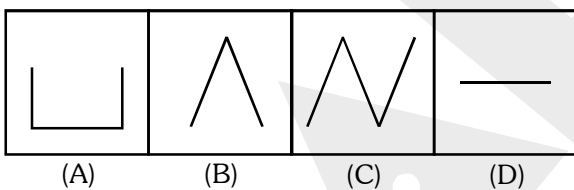
Answer figures :



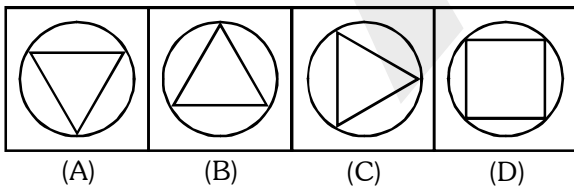
**Ans. (B)**

**Sol.** By observation

87. Choose the correct alternative in place of question mark (?), which will continue the series.



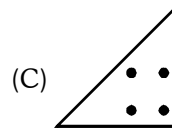
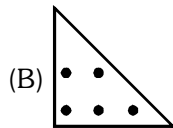
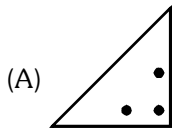
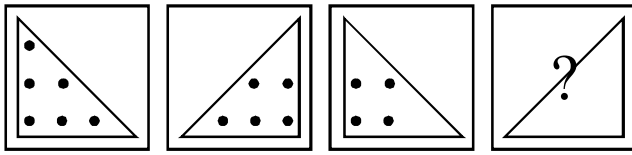
Answer figures :



**Ans. (A)**

**Sol.** By observation

88. Choose the correct alternative in place of question mark (?), which will continue the series.



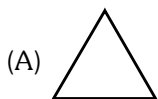
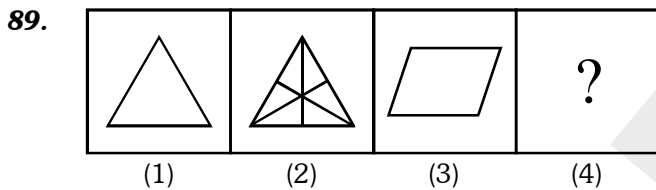
(D) None of these

Ans. (A)

Sol. By observation

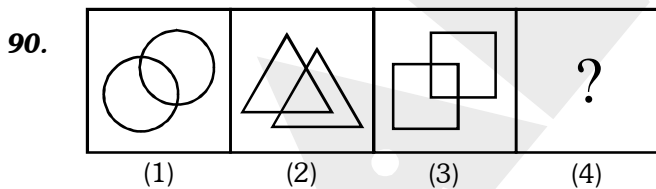
**Direction (From Q.No. 89 to 90)**

In the following question, figures (1) and (2) are related in a particular manner. Establish the same relationship between figures (3) and (4) by choosing a figure from amongst the alternatives, which replace question mark in figure(4).



Ans. (B)

Sol. By observation



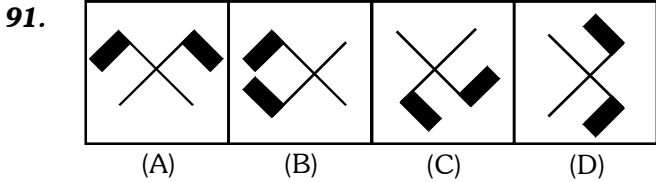
Ans. (C)

Sol. By observation



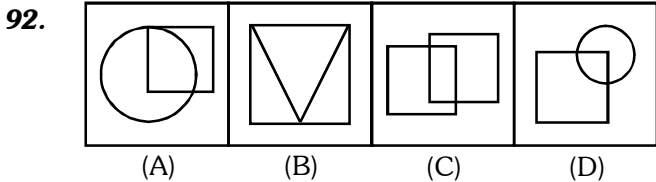
**Direction (From Q.No. 91 to 92)**

In the following questions, out of the four figures marked as (A), (B), (C) and (D), three are similar in a certain manner, but, one is different from other. Choose the figure which is different from others.



**Ans. (C)**

**Sol.** By observation



**Ans. (C)**

**Sol.** By observation

93. Choose the alternative which most closely resembles the mirror image of the given combination :

AB6CG93

- (A) 39GCG6BA (B) 39GCG6BA (C) A B 6 C G 9 3 (D) 3 9 G C G 6 B A

**Ans. (A)**

**Sol.** AB6CG93 || 39GCG6BA

94. Choose the alternative which most closely resembles the mirror image of the given combination :

DHYAN78

- (A) 87NAYHD (B) 87NAYHD (C) D H Y A N 7 8 (D) 8 7 N A Y H D

**Ans. (B)**

**Sol.** D H Y A N 7 8 || 8 7 N A Y H D

95. Choose the alternative which most closely resembles the mirror image of the given combination :

PQ8AF5BZ9

- (A) 9ZB5FV8D (B) 9ZB5FV8D (C) 9ZB5FV8D (D) None of these

**Ans. (B)**

**Sol.**  $\frac{PQ8AF5BZ9}{9ZB5FV8D}$

96. Choose the alternative which most closely resembles the mirror image of the given combination :

6 3 A M A N 4 8

(A) 8 4 N A M A 3 6

(B) 8 † N † M † V † 9

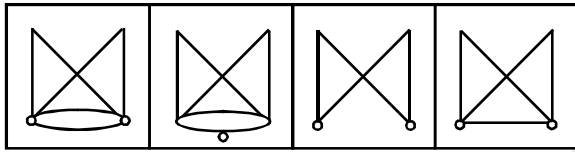
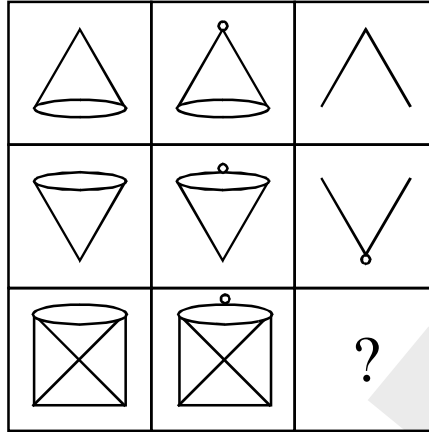
(C) 9 3 † M † N † † 8

(D) 9 3 † M † N † † 8

Ans. (C)

Sol.  $\frac{6\ 3\ A\ M\ A\ N\ 4\ 8}{9\ 3\ †\ M\ †\ N\ †\ †\ 8}$

97. Select a suitable figure from the given alternatives that would complete the figure matrix :



(A)

(B)

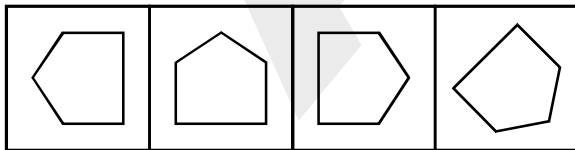
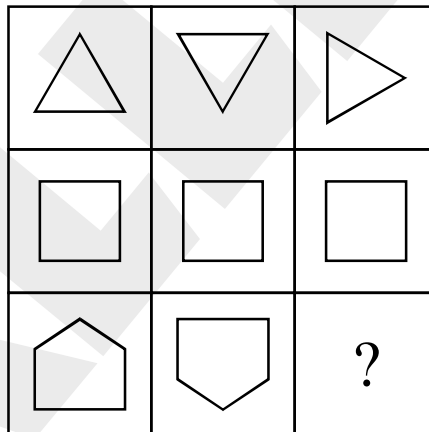
(C)

(D)

Ans. (D)

Sol. By observation

98. Select a suitable figure from the given alternatives that would complete the figure matrix :



(A)

(B)

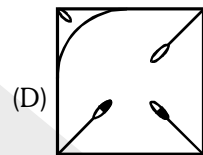
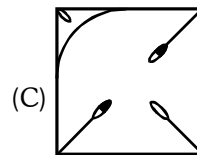
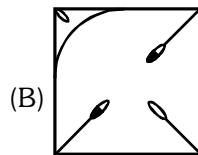
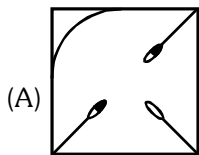
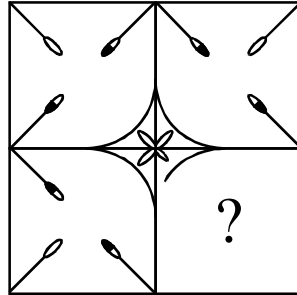
(C)

(D)

Ans. (C)

Sol. By observation

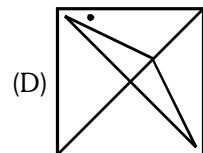
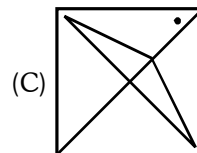
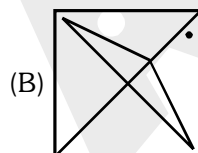
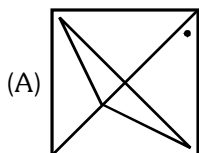
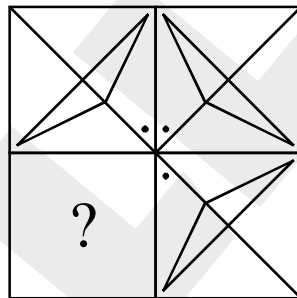
99. Select a figure in place of (?) from amongst the given alternatives, which would complete the pattern of the Question figure:



**Ans. (C)**

**Sol.** By observation

100. Select a figure in place of (?) from amongst the given alternatives, which would complete the pattern of the Question figure:



**Ans. (B)**

**Sol.** By observation.