

# SSC CPO Exam 2020

## 75+ Important Reasoning

### Previous Year Questions PDF

1. **Select the option that is related to the third number in the same way as the second number is related to the first number.**

3 : 20 :: 7 : ?

- A. 100
- B. 105
- C. 96
- D. 98

2. **Select the option in which the words share the same relationship as that shared by the given pair of words.**

Horses : Neigh

- A. Bears : Roars
- B. Elephants : Whine
- C. Camels : Grunt
- D. Donkeys : Chortle

3. **'Bangladesh'** is related to **'Dhaka'** in the same way as **'Pakistan'** is related to **'\_\_\_\_\_'**.

- A. Multan
- B. Lahore
- C. Karachi
- D. Islamabad

4. **Select the option in which the words share the same relationship as that shared by the given pair of words.**

Ear : Tinnitus

- A. Skin : Acne
- B. Eye : Ophthalmologist
- C. Nose : Nerve
- D. Joints : Muscles

5. **Select the option that is related to the third number in the same way as the second number is related to the first number.**

8 : 576 :: 4 : ?

- A. 70
- B. 90
- C. 120
- D. 80

6. **'Size'** is related to **'Medium'** in the same way as **'Shape'** is related to **'\_\_\_\_\_'**.

- A. Oval
- B. Colour

- C. Corner
- D. Object

7. **Select the option that is related to the third number in the same way as the second number is related to the first number.**

13 : 109 :: 24 : ?

- A. 194
- B. 197
- C. 216
- D. 201

8. If 'A + B' means 'A is brother of B'; 'A - B' means 'A is sister of B', 'A \* B' means 'A is father of B', 'A ÷ B' means 'A is mother of B', then which of the following options signifies that P is mother of Q?

- A.  $R - P + Q - S$
- B.  $R - P \div Q + S$
- C.  $R + P * Q + S$
- D.  $R - P * Q - S$

9. If 'A + B' means 'A is the father of B', 'A - B' means 'A is the mother of B', 'A \* B' means 'A is the brother of B' and 'A % B' means 'A is the sister of B', then how is Q related to S in 'P + Q \* R - S'?

- A. Husband
- B. Uncle
- C. Brother
- D. Father

10. If 'P 3 Q' means 'P is daughter of Q', 'P 5 Q' means 'P is father of Q', 'P 7 Q' means 'P is mother of Q' and 'P 9 Q' means 'P is sister of Q', then how is J related to K in J 3 L 9 N 3 O 5 K?

- A. Mother
- B. Wife
- C. Niece
- D. Daughter

11. If 'P 3 Q' means 'Q is the daughter of P', 'P 5 Q' means 'Q is the son of P', 'P 7 Q' means 'P is the sister of Q', 'P 9 Q' means 'P is the brother of Q'. Which of the following expression indicates A is the nephew of D?

- A. B 9 D 5 C 5 A

- B. B 7 D 7 C 3 A
- C. B 7 D 9 C 5 A
- D. B 7 D 9 C 3 A

12. Four numbers have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- A. 197
- B. 193
- C. 195
- D. 191

13. Four groups of number have been given, out of which three are alike in some manner and one is different. Select the group that is different.

- A. 561 : 651 : 165
- B. 426 : 642 : 246
- C. 289 : 829 : 928
- D. 632 : 325 : 236

14. Four letter-cluster have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A. BDFHJ
- B. NOQST
- C. QSUWY
- D. EGIKM

15. Four numbers have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A. 18
- B. 25
- C. 33
- D. 24

16. Select the option in which the numbers do NOT share the same relationship as that shared by the given pair of numbers.

- (98, 107, 125)
- A. (122, 131, 149)
- B. (319, 328, 346)
- C. (73, 82, 99)
- D. (29, 38, 56)

17. Four pairs of letter-cluster have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A. QSU-JHF
- B. EGI-VTR
- C. NOQ-MLK
- D. BEG-YVT

18. Four letter-cluster have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A. QFW
- B. MLY
- C. DGK
- D. ENR

19. Three of the following four letter-clusters are alike in a certain way and one is different. Select the odd one.

- A. QIZ
- B. HNU
- C. GKR
- D. MKX

20. Three of the following four numbers are alike in a certain way one is different. Select the number that is different from the rest.

- A. 165
- B. 170
- C. 195
- D. 90

21. In the following four-word, three words are related to one another in a certain way and one word is different from others. Find that different word.

- A. Habitat
- B. Stable
- C. Barn
- D. Den

22. In the following four letter-set, three letter-set are similar to one another in a certain way and one is different from others. Find the different letter-set.

- A. QSVZ
- B. EGJN

- C. OQSV
- D. KMPT

23. In the following four words, three words have similarity in a certain context and one word is different from others. Find the different word.

- A. Paper
- B. Rubber
- C. Stationary Material
- D. Pen

24. In the following four number pairs, three number pairs are related to each other in a certain way, and one pair is different from others. Find the different number pair.

- A. 28 : 32
- B. 54 : 64
- C. 119 : 136
- D. 91 : 104

25. In the following question, select the odd word from the given alternatives.

- A. Earth
- B. Sun
- C. Mercury
- D. Jupiter

26. In the following question, select the odd number pair from the given alternatives.

- A. 36 : 729
- B. 48 : 1728
- C. 87 : 2744
- D. 74 : 1331

27. In the following question, select the odd word from the given alternatives.

- A. Eagle
- B. Crow
- C. Pigeon
- D. Ostrich

28. In the following question, select the odd word pair from the given alternatives.

- A. Book - Author
- B. Treatment - Doctor
- C. Teaching - Teacher

D. Judge - Justice

29. In the following question, select the odd word from the given alternatives.

- A. Book
- B. Journal
- C. Page
- D. Magazine

30. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

1	4	2	13
3	6	5	95
2	4	3	?

- A. 12
- B. 24
- C. 26
- D. 29

31. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

3	4	2
1	6	5
4	2	3
20	14	?

- A. 11
- B. 12
- C. 14
- D. 16

32. If 21 (49) 14 and 159 (169) 146, then what is the value of 'A' in 56 (A) 44?

- A. 144
- B. 121
- C. 225
- D. 256

33. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

2	4	6	26
5	3	1	35
2	3	?	23

- A. 7
- B. 8
- C. 9
- D. 10

34. In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

3	5
2	6
8	1

2	4
3	8
2	6

9	3
2	1
7	?

- A. 1
- B. 2
- C. 3
- D. 4

35. How many triangles are present in the given figure?



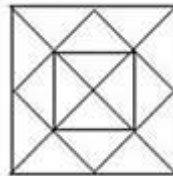
- A. 17
- B. 15
- C. 10
- D. 12

36. How many triangles are there in the given figure?



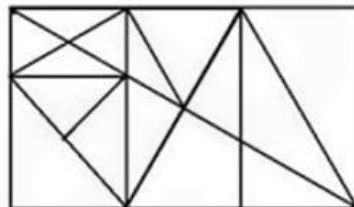
- A. 17
- B. 19
- C. 20
- D. 23

37. Find the number of squares in the following figure.



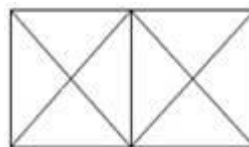
- A. 9
- B. 4
- C. 6
- D. 7

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



- A. 35
- B. 36
- C. 34
- D. 30

39. How many Triangles are there in the following figure?



- A. 14
- B. 16
- C. 18
- D. 10

40. How many quadrilaterals are there in the given figure?



- A. 14



- B. 15
- C. 17
- D. 19

41. **Select the letter that can replace the question mark (?) in the following series.**

- U, P, M, H, ?, Z
- A. K
  - B. J
  - C. E
  - D. H

42. **Select the number that can replace the question mark (?) in the following series.**

- 6, 9, 14, 21, 30, 41, ?
- A. 57
  - B. 49
  - C. 54
  - D. 53

43. **In the given series one number is incorrect. Identify the INCORRECT number from among the options given.**

- 3, 5, 7, 6, 10, 14, 12, 24, 28, 24, 40, 56
- A. 10
  - B. 12
  - C. 28
  - D. 24

44. **Select the letter-cluster that can replace the question mark (?) in the following series.**

- TXB, QWE, NVH, KUK, ?
- A. ITM
  - B. HTN
  - C. JTM
  - D. HSN

45. **Select the number that can replace the question mark (?) in the following series.**

- 13, 15, 19, 25, 33, ?
- A. 54
  - B. 43
  - C. 42
  - D. 41

46. **Select the number that can replace the question mark (?) in the following series.**

- 3, 12, 36, 80, ?, 248**
- A. 147
  - B. 152
  - C. 146
  - D. 149

47. **Select the letter that can replace the question mark (?) in the following series.**

- K, J, L, I, ?, H**
- A. L
  - B. D
  - C. M
  - D. N

48. **Select the letter-cluster that can replace the question mark (?) in the following series.**

- EFY, FID, GLI, HON, IRS, ?**
- A. KUX
  - B. KQY
  - C. JVY
  - D. JUX

49. Which letter set will come in place of question mark (?) in the following series?  
CFZ, EGX, HIU, JLS, MPP, ?

- A. OUN
- B. NTO
- C. OTN
- D. MSN

50. **Select the option that will fill in the blank and complete the given series.**

- 14, 17, 23, 32, 44, \_\_\_\_\_
- A. 59
  - B. 54
  - C. 69
  - D. 56

51. In a row of cars, blue car is the bottom end. There are 18 cars between yellow and blue car. There are 8 cars between red and blue car. If there are 6 cars above yellow car, then how many minimum cars are there in the row?

- A. 34

- B. 26
- C. 32
- D. 35

52. Rakesh is 6 ranks ahead of Tanvir in a class of 42 students. If Tanvir's rank is eighteenth from the last, then what is Rakesh's rank from the start?

- A. 14<sup>th</sup>
- B. 15<sup>th</sup>
- C. 19<sup>th</sup>
- D. 17<sup>th</sup>

53. Among four friends, Govind is twice the age of Krishan. Nandu is half of the age of Krishan. Gwala is 6 years elder to Krishan, but 6 years younger to Govind. Who is the youngest?

- A. Govind
- B. Krishan
- C. Nandu
- D. Cannot be determined

54. **Rearrange the given letters to form meaningful words and select the option which is different from the other three words.**

- A. REAYBL
- B. ETWAH
- C. EZAMI
- D. SEHCWA

55. In the following question, select the word which cannot be formed using the letters of the given word.

TREASURER

- A. SURE
- B. TREAT
- C. REST
- D. TEASE

56. In the following question, select the word which cannot be formed using the letters of the given word.

PRECIPITATION

- A. REACTION
- B. PATIENT
- C. REACTS
- D. PETITION

57. In the following question, select the word which cannot be formed using the letters of the given word.

DELIBERATE

- A. DILATE
- B. TAIL
- C. BETRAY
- D. ELATED

58. In the following question, select the word which cannot be formed using the letters of the given word.

GRAPEVINE

- A. VINE
- B. GRAPE
- C. RAIN
- D. RINGER

59. In the following question, select the word which cannot be formed using the letters of the given word.

Vegetarian

- A. Train
- B. Greet
- C. Gritty
- D. Vegan

60. In the following question, select the word which cannot be formed using the letters of the given word.

PARTICULARLY

- A. RALLY
- B. TALCUM
- C. CULT
- D. PART

61. Rehana drive 6 km west from her home and turns left and drives 3 km and then turns left again and drives 10 km. What is the shortest distance between Rehana's home and office?

- A. 9 km
- B. 10 km
- C. 4 km
- D. 5 km

62. Vimla starts from her home and walks 30 m towards north and then turns right and walk 40 m. Then, she turns left and walks 35 m. After that, she turns right and

walks 40 m. From there, she turns right and walks 85 m. Then, she again turns right and walks 50 m. From there, she finally turns right and walks 20 m. How far is she from her home now and in which direction with reference to her home?

- A. 20 m, West
- B. 100 m, East
- C. 30 m, East
- D. 30 m, South

63. Starting from Anand's house, the school bus takes a right turn and covers 3 km. Then, it takes a left turn and covers 2 km. Finally, it takes a right turn again and covers 4 km to reach the school. On reaching the school, the bus faces south-east. In which direction was the bus facing when it left Anand's house?

- A. South-west
- B. South-east
- C. North-east
- D. North

64. When Priya's school bus reached school, the bus was facing north-west direction. After starting from her house, once to reach school, the bus turned left and then once turned right and then once to the left. When the bus out of Priya's house, bus face was which side?

- A. north-east
- B. North-West
- C. South-west
- D. South-east

65. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of matrix-I are numbered from 0 to 4 and that of matrix-II are numbered from 5 to 9 A letter from these matrices can be represented first by its row and next by its column, for example. 'V' can be represented by 20, 44 etc, and 'R' can be represented by 66, 97 etc. Similarly, you

have to identify the set for the word "SLAIN".

	0	1	2	3	4
0	Q	V	N	I	S
1	I	S	Q	V	N
2	V	N	I	S	Q
3	S	Q	V	N	I
4	N	I	S	Q	V

	5	6	7	8	9
5	A	L	M	P	R
6	P	R	A	L	M
7	L	M	P	R	A
8	R	A	L	M	P
9	M	P	R	A	L

- A. 04, 68, 55, 23, 20
- B. 30, 55, 56, 03, 32
- C. 23, 56, 67, 34, 40
- D. 11, 68, 66, 14, 21

66. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(S) from the statements.

**Statements:**

- 1) Some dancers are singers.
- 2) No singer is an actor.

**Conclusions:**

- I. Some actors are singers.
- II. All singers are dancers.
- A. Either conclusion I or II follows
- B. Only conclusion I follows
- C. Only conclusion II follows
- D. Neither conclusion I nor II follows

67. Two conclusions I and II are given after two statements. Considering the statements true even if they may show variance from general accepted truth, then decide which conclusions follow the given statements logically.

**Statements:**

- All officers are gentle people.
- All gentle people are rich.

**Conclusions:**

- I. All officers are rich.
- II. All gentle people are officers.
- A. Only conclusion II follows
- B. Both conclusions I and II follow
- C. Only conclusion I follows



D. Neither conclusion I nor conclusion II follow

68. Two conclusions I and II are given after two statements. Consider the given statements true, however, they may show variance in real life situations and select which conclusions follow the given statements logically.

**Statement:**

All vans are cats.

All jeeps are cats.

**Conclusion:**

I. All vans are jeeps.

II. Some jeeps are vans.

A. Only conclusion I follows

B. Neither conclusion I nor conclusion II follow

C. Either conclusion I or conclusion II follow

D. Only conclusion II follows

69. Two conclusions I and II are given below after two statements. Considering the statement to be true, whether it may show variance with the general accepted rule, and decide which conclusion follows the statement accordingly.

**Statement:**

- All leaders are politician.
- All politicians are good speaker.

**Conclusion:**

I. All leaders are good speaker.

II. All politicians are leaders.

A. Conclusion I and II follow

B. Only conclusion I follows

C. Only conclusion II follows

D. Neither conclusion I nor conclusion II follow

70. consider the following statements to be true even if they seem to be at variance from commonly known fact and decide which of the conclusion logically follows from the statement.

**Statement:-**

A) Some bulbs are LEDs

B) Some LED are tubelights.

**Conclusions :-**

I. Some tubelights are bulbs

II. No tubelight is a bulb.

A. Neither conclusion I nor II follows

B. Only conclusion II follows

C. Either conclusion I or II follows

D. Only conclusion I follows

71. **Read the given statement and conclusions carefully and decide which of the conclusions logically follow(s) from the statement.**

**Statement:**

The importance of a person is not dependent only on one's status and money.

**Conclusions:**

I. The goal of most people is just to acquire more money.

II. There are some factors other than status and money which contribute to the importance of a person.

A. Only conclusion I follows.

B. Both conclusions I and II follow.

C. Only conclusion II follows.

D. Neither conclusion I nor II follows.

72. **Read the given statement and conclusions carefully and decide which of the conclusions logically follow(s) from the statement.**

**Statement:**

"On October 2, let us pledge to make the country free of single-use plastic.". Prime Minister of India

**Conclusions:**

I. All Indians should reduce and then completely eliminate the consumption of single use plastic like packaged drinking water

II. India is going to be completely plastic free of October 2

A. Only conclusion II follows

B. Only conclusion I follows

C. Neither conclusion I nor II follows

D. Both conclusion I and II follow

73. Naveen, Sapna, Alka, Jenny, Megan, Farhad and Bhavna are sitting in a row in a cinema hall. All of them are facing the screen that is towards the east.

Sapna is at the extreme end and her immediate neighbor is Megan. Jenny is on the right of Megan. Bhavna has Megan and

Farhad in each side. Alka is to the immediate right of Jenny who is sitting third from the south end.

Jenny is sitting immediately between which of the following pairs of people?

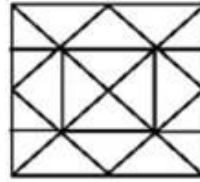
- A. Bhavna and Farhad
- B. Naveen and Alka
- C. Farhad and Alka
- D. Megan and Bhavna

74. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



- A.
- B.
- C.
- D.

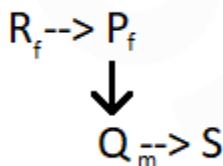
75. From the given options, select the figure which is embedded in the following figure (rotation is NOT allowed).



- A.
- B.
- C.
- D.

###ANSWERS###

1. Ans. A.  
Logic -  $a = (a \times 2a) + 2$   
As,  
 $(3 \times 2 \times 3) + 2 = 18 + 2 = 20$   
Similarly,  
 $(7 \times 2 \times 7) + 2 = 98 + 2 = 100$   
Hence, option A is the correct answer.
2. Ans. C.  
Neigh is a high whinnying sound made by a horse in the same way Grunt is a sound made by Camels.  
Hence, option C is the correct answer.
3. Ans. D.  
Dhaka is the Capital of Bangladesh in the same way Islamabad is the Capital of Pakistan.  
Hence, option D is the correct answer.
4. Ans. A.  
Tinnitus is a disease that affects ear in the human body.  
Similarly,  
Acne is a disease that affects the skin in the human body.  
Hence, option A is the correct answer.
5. Ans. D.  
As,  
 $(8^2) + (8^3) = 576$   
Similarly,  
 $(4^2) + (4^3) = 80$   
Hence, option D is the correct answer.
6. Ans. A.  
As medium is a type of size. Similarly, Oval is a type of shape.  
Hence, option A is the correct answer.
7. Ans. B.  
As,  $13 \times 8 + 5 = 104 + 5 = 109$   
Similarly,  $24 \times 8 + 5 = 192 + 5 = 197$   
Hence, option B is the correct answer.
8. Ans. B.

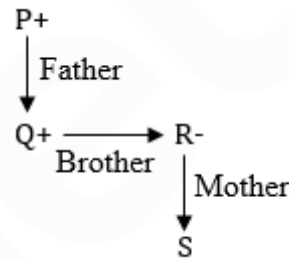


$R - P \div Q + S$   
R is the sister of P

P is the mother of Q  
Q is the brother of S  
Hence, the correct option is **B**.  
9. Ans. B.

Symbol	Meaning
+	Father
-	Mother
*	Brother
%	Sister

Given Relation: 'P + Q \* R - S'  
 $\Rightarrow$  P is the father of Q,  
 $\Rightarrow$  Q is the brother of R,  
 $\Rightarrow$  R is the mother of S.  
 So,

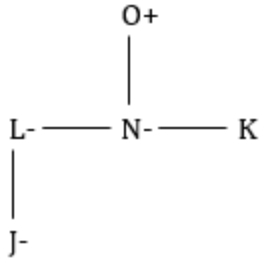


**Note:** here (+) denotes male and (-) denotes female,  
Clearly, Q is the maternal Uncle of S.

Hence, the correct option is **B**.  
10. Ans. C.

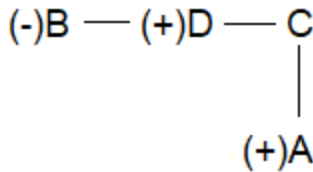
Number	Meaning
3	Daughter
5	Father
7	Mother
9	Sister

Expression: J 3 L 9 N 3 O 5 K  
 J is daughter L, L is sister N, N is daughter of O and O is father of K  
 + denotes male and - denotes female



Clearly, J is niece of K.  
Hence, option C is the required answer.  
11. Ans. C.

**Given:** B 7 D 9 C 5 A  
Means, B is the sister of D.  
D is the brother of C.  
A is the son of C.  
As per the given information,



Here, (-) sign indicates Female; (+) sign indicates Male.  
So, as per the above diagram, D is the brother of C and A is the son of C.  
Therefore, A is the Nephew of D.

Hence, the correct option is (C).  
12. Ans. C.  
Except 195, all are prime numbers.  
Hence, option C is the correct answer.  
13. Ans. D.  
Except D, all follow the logic given below:  
First Number : Second Number : Third Number (All made by three same digits i.e abc)  
Hence, option D is the correct answer.  
14. Ans. B.

Option A.	B	$\xrightarrow{+2}$	D	$\xrightarrow{+2}$	F	$\xrightarrow{+2}$
Option B.	N	$\xrightarrow{+1}$	O	$\xrightarrow{+2}$	Q	$\xrightarrow{+2}$
Option C.	Q	$\xrightarrow{+2}$	S	$\xrightarrow{+2}$	U	$\xrightarrow{+2}$
Option D.	E	$\xrightarrow{+2}$	G	$\xrightarrow{+2}$	I	$\xrightarrow{+2}$

Hence, option B is the correct answer.  
15. Ans. B.  
Only 25 is a perfect square.  
Hence, option B is the correct answer.  
16. Ans. C.  
In Given set:  $98 = 9 + 8 = 17 = 1 + 7 = 8$   
 $107 = 1 + 0 + 7 = 8$   
 $125 = 1 + 2 + 5 = 8$   
A.  $122 = 1 + 2 + 2 = 5,$   
 $131 = 1 + 3 + 1 = 5,$   
 $149 = 1 + 4 + 9 = 14 = 1 + 4 = 5$   
B.  $319 = 3 + 1 + 9 = 13 = 1 + 3 = 4,$   
 $328 = 3 + 2 + 8 = 13 = 1 + 3 = 4,$   
 $346 = 3 + 4 + 6 = 13 = 4$   
C.  $73 = 7 + 3 = 10 = 1,$   
 $82 = 8 + 2 = 10 = 1,$   
 $99 = 9 + 9 = 18 = 9$   
D.  $29 = 2 + 9 = 11 = 2,$   
 $38 = 3 + 8 = 11 = 2,$   
 $56 = 5 + 6 = 11 = 2$   
Hence, option C is the correct answer.

17. Ans. C.  
In the above letter clusters, the second group of letters are opposite of first letter groups.  
A. QSU – JHF (opposite of Q – J, S – H & U – F)  
B. EGI – VTR  
C. NOQ – MLK (opposite of Q is J not K.)  
D. BEG – YVT  
Hence, option C is the correct answer.  
18. Ans. D.  
Logic: The sum of place value of first two letters is equal to the place value of third letter.

A. Q (17) + F (6) = 23 (W)  
B. M (13) + L (12) = 25 (Y)  
C. D (4) + G (7) = 11 (K)  
D. E (5) + N (14) = 19 {which is not the place value of R}.  
Option D is different.  
19. Ans. B.  
Except for the letter group 'HNU', in all others, the sum of the place value of the letters is multiple of 9.  
QIZ = 17 + 9 + 26 = 54  
GKR = 7 + 11 + 18 = 36  
MKX = 12 + 11 + 22 = 45  
HNU = 8 + 13 + 21 = 43  
Hence, the correct option is B.

20. Ans. B.

Logic: Sum of digits is divisible by 3.

$$165 \rightarrow 1 + 6 + 5 = 12$$

$$195 \rightarrow 1 + 9 + 5 = 15$$

$$90 \rightarrow 9 + 0 = 9$$

But in option (B)  $170 \rightarrow 1 + 7 + 0 = 8$  which is not divisible by 3.

Hence, the correct option is B.

21. Ans. A.

Barn, Den and Stable are types of habitat. Barn, Den and Stable are actual living place of animals.

Hence, the correct answer is option A.

22. Ans. C.

$$\text{Option(a)- } Q \xrightarrow{+2} S \xrightarrow{+3} V \xrightarrow{+4} Z$$

$$\text{Option(b)- } E \xrightarrow{+2} G \xrightarrow{+3} J \xrightarrow{+4} N$$

$$\text{Option(c)- } O \xrightarrow{+2} Q \xrightarrow{+2} S \xrightarrow{+3} V$$

$$\text{Option(d)- } K \xrightarrow{+2} M \xrightarrow{+3} P \xrightarrow{+4} T$$

Hence, option C is the correct answer.

23. Ans. C.

Paper, rubber and pen these three are the stationary material.

Hence, the correct answer is option C.

24. Ans. B.

In every number pair first is divided by 7 and second number is divided by 8 except in option B.

Hence, the correct answer is option B.

25. Ans. B.

All are planet except **SUN** which is a star.

Hence, option B is the correct response.

26. Ans. C.

$$(3 + 6)^3 \Rightarrow 9^3 = 729$$

$$(4 + 8)^3 \Rightarrow 12^3 = 1728$$

$$(8 + 7)^3 \Rightarrow 15^3 = 3375$$

$$(7 + 4)^3 \Rightarrow 11^3 = 1331$$

Hence, the correct option is C.

27. Ans. D.

All can fly except OSTRICH.

Hence, the correct option is D.

28. Ans. D.

**Logic :** Here the first word in the pair is the job done by the person at second word. Except the word pair (Judge – Justice), all other follows the same logic as given above.

An Author writes a Book.

A Doctor provide treatment for any health conditions.

A Teacher basically teaches the students.

Hence, option D is the correct answer.

29. Ans. C.

Books, Journals, Magazines all have Pages in it.

Thus Page is the odd word.

Hence, option C is the correct response.

30. Ans. D.

As,

$$1 \times 4 \times 2 + 5 = 8 + 5 = 13$$

$$3 \times 6 \times 5 + 5 = 90 + 5 = 95$$

Similarly,

$$2 \times 4 \times 3 + 5 = 24 + 5 = 29$$

Hence, option D is the correct answer.

31. Ans. D.

$$\text{In column I: } (3 + 1) + 4^2 = 4 + 16 = 20$$

$$\text{In column II: } (4 + 6) + 2^2 = 10 + 4 = 14$$

Similarly,

$$\text{In column III: } (2 + 5) + 3^2 = 7 + 9 = 16$$

Thus the missing number is 16.

32. Ans. A.

The middle number under bracket is the square of HCF of 1<sup>st</sup> and 2<sup>nd</sup> number:

21 (49) 14  $\Rightarrow$  HCF of '21', '14' is '7' and its square is '49'

159 (169) 146  $\Rightarrow$  HCF of '159', '146' is '13' and its square is '169'

56 (144) 44  $\Rightarrow$  HCF of '56', '44' is '12' and its square is '**144**'

Hence, the correct option is **A**.

33. Ans. D.

The elements in 4<sup>th</sup> column is equal to sum of squares of elements in 1<sup>st</sup> and 2<sup>nd</sup> with the elements in 3<sup>rd</sup> column:

$$2^2 + 4^2 + 6 = 26$$

$$5^2 + 3^2 + 1 = 35$$

$$2^2 + 3^2 + \mathbf{10} = 23$$

Hence, the correct option is **D**



34. Ans. C.

In matrix I:  $3 + 5 + 2 + 6 + 8 + 1 = 25$

In matrix II:  $2 + 4 + 3 + 8 + 2 + 6 = 25$

Similarly,

In matrix III:  $9 + 3 + 2 + 1 + 7 + ? = 25$

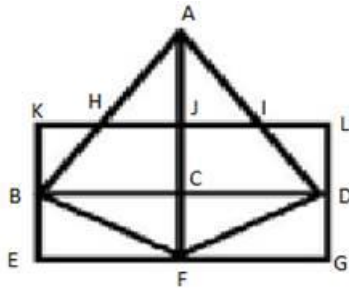
$$\Rightarrow 22 + ? = 25$$

$$\Rightarrow ? = 3$$

Thus the missing number is 3.

Hence, option C is the correct answer.

35. Ans. B.

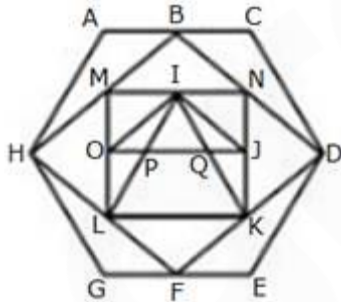


The total triangles are: ABC, ACD, BCF, BEF, CDF, FDG, BHK, AHJ, AJI, ILD, ABF, AFD, AHI, ABD and BCF.

Thus, there are a total of 15 triangles.

Hence, the correct option is B.

36. Ans. D.



The triangles are:

AHB, BDC, DEF, HGF

HLM, BMN, DNK, FLK

MOI, INJ

IOJ, IOP, IQJ, IPQ, IOQ, IPJ

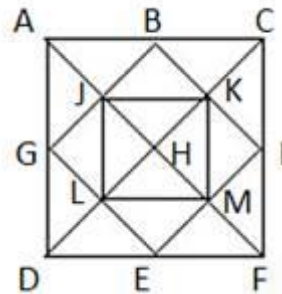
ILK, MIL, NKI

OPL, JQK, IJK, IOL.

Thus there are 23 triangles.

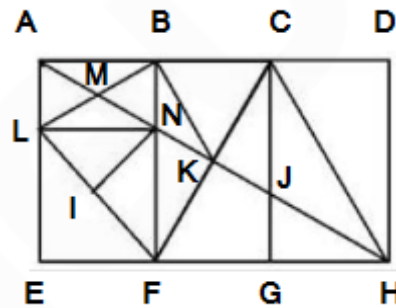
Hence, option D is the correct answer.

37. Ans. D.



There are 7 squares in all; ACFD, BGEI, JKML, GJHL, BKHJ, HMIK, LHME. Hence option (d) is correct.

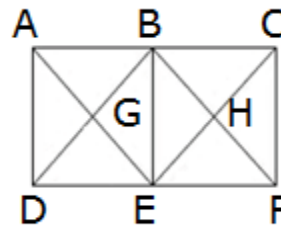
38. Ans. A.



There are 35 triangles in all; AEH, ADH, CFH, CFG, CGH, CDH, CKH, CKJ, CJH, JGH, LNF, LNI, NIF, BFK, BNK, NKF, BCK, ABM, AML, MLN, MNB, ALN, ABN, BMK, ACH, ACK, LEF, BLF, KFH, NFH, ABK, BCF, ACJ, ABL and BLN.

Hence option (a) is correct.

39. Ans. C.



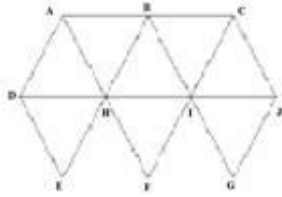
There are 18 triangles in all i.e.

ABG, ADG, DGE, BGE, BCH, BEH, EFH, CFH, AD E, ABE, ABD,

BDE, BCE, CEF, BCF, BEF, AEC and BDF.

Hence, Option C is the correct answer.

40. Ans. C.

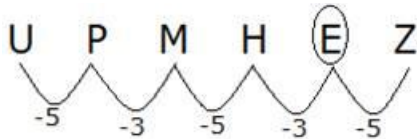


ABDH, BHIC, BIJC, AHIB, ADIC, AHJC, ADIB, AHIC, BHJC, ADJC, ADEH, AFIB, ADEB, BHFI, BHFC, BGJC, CIGJ.

Hence, the correct option is **C**

41. Ans. C.

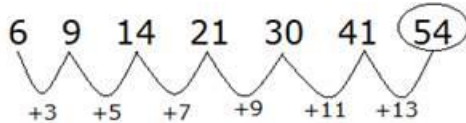
The series is:



Hence, option C is the correct answer.

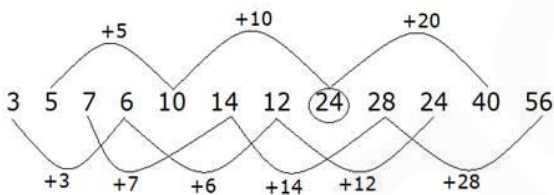
42. Ans. C.

The series is:



Hence, option C is the correct answer.

43. Ans. D.

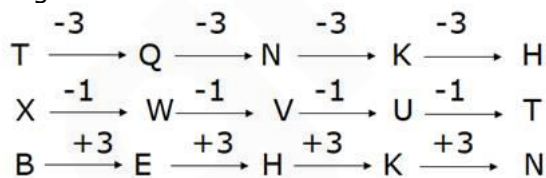


So, 24 is the incorrect number among options.

Hence, option D is the correct answer.

44. Ans. B.

Logic is:



Hence, option B is the correct answer.

45. Ans. B.

Logic is:

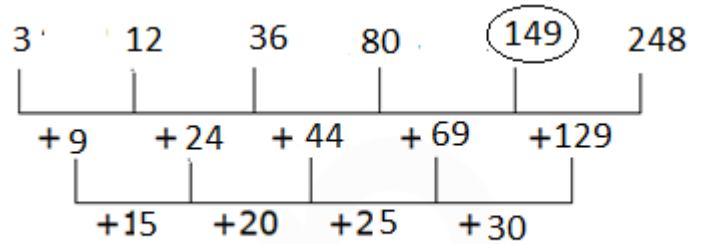
- 13+2=15
- 15+4=19
- 19+6=25
- 25+8=33

33+10=43

Hence, option B is the correct answer.

46. Ans. D.

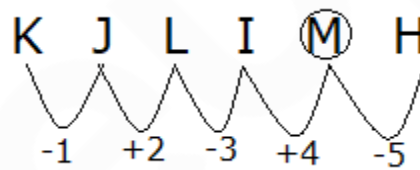
The pattern is:



Hence, the correct option is D

47. Ans. C.

The series is:



Hence, the correct option is C.

48. Ans. D.

The first letter of the given series is arranged alphabetically E, F, G, H, I, So next should be **J**.

Now, the second letter of the series follows +3 order of the English alphabetical series as:

F (+3) is I

I (+3) is L

L (+3) is O

O (+3) is R,

So, R (+3) will be **U**.

Similarly, the third letter of the series follows +5 order of the English alphabetical series.

Y (+5) is D

D (+5) is I

I (+5) is N

N (+5) is S

So, S (+5) will be **X**.

So, the letter cluster is **JUX**.

Hence, the correct option is D.

49. Ans. A.

Use letter ranks in alphabetical series-

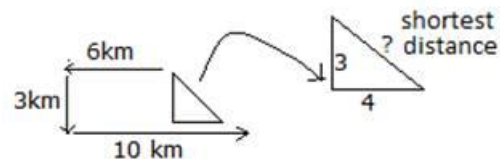
CFZ = 3 + 6 + 26 = 35

EGX = 5 + 7 + 24 = 36

HIU = 8 + 9 + 21 = 38  
 JLS = 10 + 12 + 19 = 41  
 MPP = 13 + 16 + 16 = 45  
 So, OUN = 15 + 21 + 14 = 50  
 Number series forms- 35,36,38,41,45,50  
 Logic-  
 35+1=36  
 36+2=38  
 38+3=41  
 41+4=45  
 45+5=50  
 Hence, the correct answer is option A.  
 50. Ans. A.  
 Logic is-  
 14+3=17  
 17+6=23  
 23+9=32  
 32+12=44  
 44+15=59  
 Hence, the correct answer is option A.  
 51. Ans. B.  
 Blue car is the bottom end.  
 There are 18 cars between yellow and blue car.  
 Thus yellow car is 20th from the bottom.  
 If there are 6 cars above yellow car then the total number of cars will be,  
 $20 + 6 = 26$  cars  
 Thus the minimum cars in the row are 26.  
 Hence, option B is correct answer.  
 52. Ans. C.  
 Total number in class = 42  
 Tanvir's rank is eighteenth from the last.  
 Thus Tanvir's rank from the start is  $42 - 18 + 1 = 25$   
 Rakesh is 6 ranks ahead of Tanvir.  
 Thus Rakesh's rank from the start =  $25 - 6 = 19$ .  
 Hence, option C is the correct response.  
 53. Ans. C.  
 Govind is twice the age of Krishan.  
 $\Rightarrow$  Govind > Krishna  
 Nandu is half of the age of Krishan.  
 $\Rightarrow$  Govind > Krishna > Nandu  
 Gwala is 6 years elder to Krishan, but 6 years younger to Govind.  
 $\Rightarrow$  Govind > Gwala > Krishna > Nandu  
 Thus Nandu is the youngest friend.  
 Hence, option C is the correct answer.

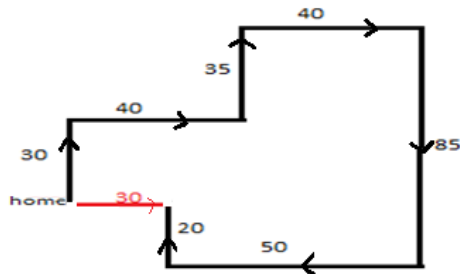
54. Ans. D.  
 A. REAYBL=BARLEY  
 B. ETWAH=WHEAT  
 C. EZAMI=MAIZE  
 D. SEHCWA=CASHEW  
 Except CASHEW, all are grain fruit.  
 D. Cashew is a dry fruit.  
 Hence, option A is the correct answer.  
 55. Ans. B.  
 Since there is only single 'T' involved in TREASURER, so TREAT can't be formed.  
 Hence, the correct option is B  
 56. Ans. C.  
 Since there is no 'S' involved in the spelling of 'PRECIPITATION', we can't form 'REACTS'.  
 Hence, the correct option is C  
 57. Ans. C.  
 Letter 'Y' is not present in the word DELIBERATE. Thus we cannot form word BETRAY.  
 Hence, option C is the correct response.  
 58. Ans. D.  
 Letter 'R' is present only one time in the word GRAPEVINE. Thus, the word RINGER cannot be formed.  
 Hence, option D is correct response.  
 59. Ans. C.  
 Letter 'Y' is not present in the word VEGETARIAN. Thus we cannot form word GRITY.  
 Hence, option C is correct answer  
 60. Ans. B.  
 Since there is no 'M' involved in PARTICULARLY so, TALCUM can't be formed.

Hence, the correct option is B.  
 61. Ans. D.



The shortest distance (?) =  $\sqrt{4^2 + 3^2} = \sqrt{16 + 9} = \sqrt{25} = 5$  km  
 Hence, option D is the correct answer.

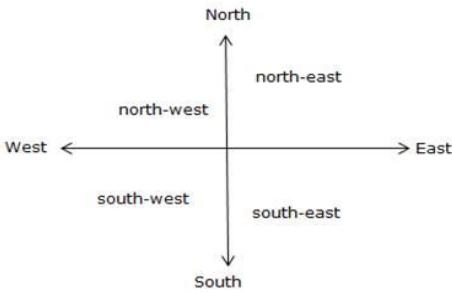
62. Ans. C.  
According to the given information;



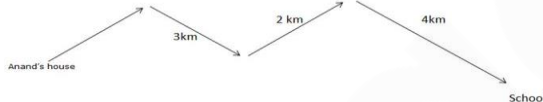
Vimla is now at a distance of 30 m and facing East direction.

Hence, the correct option is C.

63. Ans. C.  
As we know-



We can draw the following diagram to represent the text given in the question-



North-east direction was the bus facing when it left Anand's house.

Hence, Option(C) is the correct response.

64. Ans. A.  
Option A is correct.  
65. Ans. C.

'S' can be written as: 04, 11, 23, 30, 42.

'L' can be written as: 56, 68, 75, 87, 99.

'A' can be written as: 55, 67, 79, 86, 98.

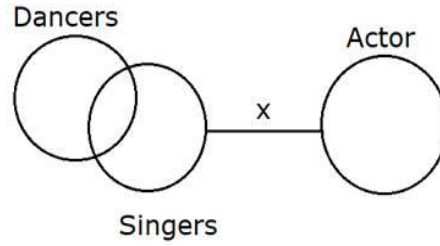
'I' can be written as: 03, 10, 22, 34, 41.

'N' can be written as: 02, 14, 21, 33, 40.

Hence, the correct option is **C**

66. Ans. D.

Minimum Possible diagram is-



**Conclusions:**

I. Some actors are singers. ( It does not follow as No singer is an actor.)

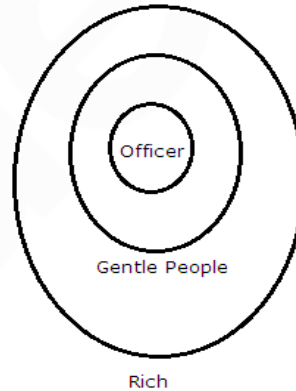
II. All singers are dancers. ( It does not follow as its just a possibility, not surety.)  
Hence, option D is the correct answer.

So, Neither conclusion I nor II follows.

Hence, the correct answer is option D.

67. Ans. C.

Minimum possible diagram is-



**Conclusions:**

I. All officers are rich.(It follows as its obvious from the above diagram.)

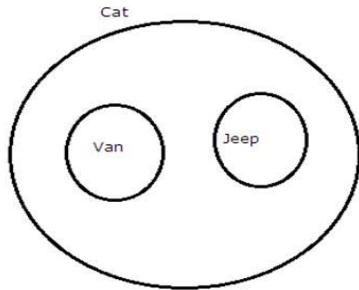
II. All gentle people are officers.(It does not follow as its just possibility, not surety.)

So, Only conclusion I follows.

Hence, the correct answer is option C.

68. Ans. B.

Minimum Possible diagram is-



Conclusion:

I. All vans are jeeps.( It does not follow as its just a possibility, not surety.)

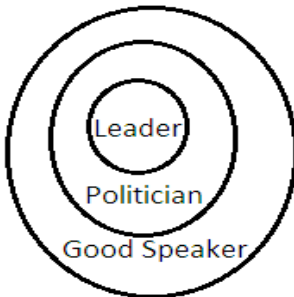
II. Some jeeps are vans.( It also does not follow as its just a possibility, not surety.)

So, Neither conclusion I nor conclusion II follow

Hence, the correct answer is option B.

69. Ans. B.

Minimum Possible diagram is-



Conclusion:

I. All leaders are good speaker.( It follows as its obvious from the above diagram.)

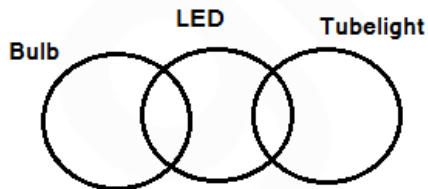
II. All politicians are leaders.( It does not follow as its just a possibility, not surety.)

So, Only conclusion I follows.

Hence, the correct answer is option B.

70. Ans. C.

Minimum possible diagram is-



**Conclusions :-**

I. Some tubelights are bulbs.(It does not follow independently as no clear relationship is given between tubelight and bulb.)

II. No tubelight is a bulb.(It also does not follow independently as no negative statement given .)

In this case, some+no makes either or situation.

So, Either conclusion I or II follows.

Hence, Option(C) is the correct response.

71. Ans. C.

Conclusions:

I. The goal of most people is just to acquire more money. (It does not follow as we know only money not enough to live good life.)

II. There are some factors other than status and money which contribute to the importance of a person. (It follows as other than money many factors like good health, family relationships, friendships, good bonds with others, good communications etc. also matters to spend good life.)

Hence, Option C is the correct answer.

72. Ans. B.

**Conclusions:**

I. All Indians should reduce and then completely eliminate the consumption of single use plastic like packaged drinking water(It follows as one should follow the good instructions given by prime minister)

II. India is going to be completely plastic free of October 2(It does not follow as it's a long term plan, in one day or few days its difficult to get rid of it.)

Hence, Option B is the correct answer.

73. Ans. C.

Alka is to the immediate right of Jenny who is sitting third from the south en

D. Jenny is on the right of Megan. Bhavna has Megan and Farhad in each side. Sapna is at the extreme end and her immediate neighbor is Megan.

So,



- Sapna
- Megan
- Bhavna
- Farhad
- Jenny
- Alka
- Naveen

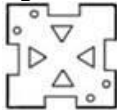
Jenny is sitting immediately between Farhad and Alka.

Hence, option C is the correct answer.

74. Ans. C.

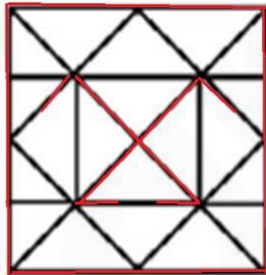
As it is punched in a tissue paper-folding manner and then again it gets punch

D. So, when we open it up there will be a figure as shown in option(c).



Hence, option C is the correct answer.

75. Ans. B.



Hence, Option B is the correct answer.

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