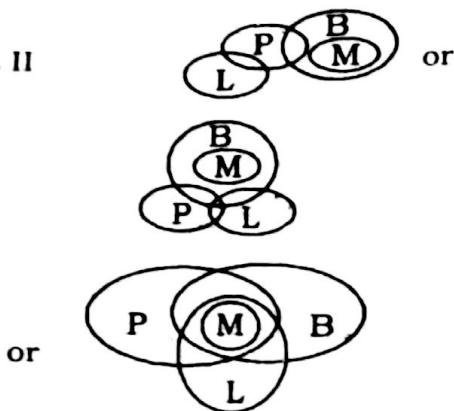


- (1) Either I or IV follow
- (2) Either II or IV follow
- (3) Either I or IV and II follow
- (4) Only III follow
- (5) None of these

**Leader = L, Pillow = P, Bed = B, Minister = M**

**Sol.** Step I & II



Step III Here II and IV are complementary pair. So either II or IV follows.

**Ans. (2)**

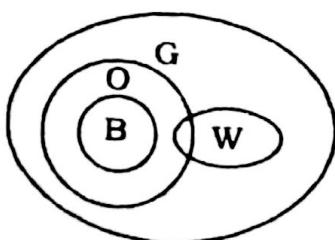
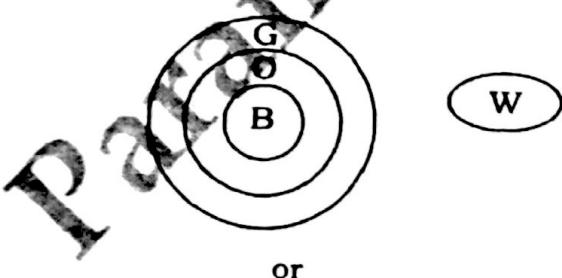
**Ex. 17: Statement:**

No water is black.  
All goods are green  
All blacks are good.

**Conclusions:**

- (I) Some greens are not water.
- (II) Some greens are black.
- (III) Some blacks are water.
- (IV) Some blacks are green.
- (1) Only II and IV follow
- (2) Only I, II and IV follow
- (3) Either I or III follow
- (4) Only II, III and IV follow
- (5) None of these

**Black = B, Goods = O, Green = G, Water = W**  
**Sol.** Step I & II



**Step III Only I, II and IV follow.**

**Ans. (2)**

### Rule of complementary pair

If out of all two conclusions of the statement are doubtful and out of these two conclusions one is positive and the other negative and the terms (subject and predicate) of both the conclusions are same, then both the conclusion make the conclusions of 'either' case. See the examples given below:

**Ex. 18: Statement:**

1. All books are papers.
2. Some papers are pencils.

**Conclusions:**

- (I) All books are pencil (-)
  - (II) Some books are not pencil (-)
- If both conclusions are doubtful and conclusion (I) is positive and conclusion (II) negative and the terms of both the conclusions i.e. 'books' and 'pencils' are same then conclusion (I) and (II) form case of 'either'

**Ex. 19: Statements:**

Some rods are trees.  
Some trees are flowers.

**Conclusions:**

- (I) Some rods are flowers. (-)
- (II) Some flowers are trees. (✓)
- (III) Some rods are not flowers. (-)
- (IV) Some trees are rods. (✓)

Both conclusions I and III are doubtful and conclusion (I) is positive and conclusion (III) negative and the terms of both the conclusions i.e. 'rods' and 'flowers' are same then conclusion (I) and (II) form case of 'either'. So answer will be:- only either (I) or (III) and (II) & (IV) follow.

**Ex. 20: Statements:**

Some toys are pens.  
Some pens are papers.  
Some papers are black.

**Conclusions:**

- (I) All toys are black. (-)
- (II) Some pens are not black. (-)
- (III) No toy is black (-)
- (IV) Some pens are black (-)

- (1) None follows  
 (2) Only either I or IV follows  
 (3) Only either I or III and either II or IV follow  
 (4) Only either I or III follows  
 (5) None of these

**Ans. (3)**

**Sol.**  
 Here, all four conclusions are doubtful. Conclusion (I) is positive and conclusion (III) is negative and the terms of both the conclusions i.e. 'toys' and 'black' are same then conclusion (I) and (III) form case of 'either'. Again conclusion (II) is negative and conclusion (IV) is positive and the terms of both the conclusions i.e. 'pens' and 'black' are same. So conclusion (II) and (IV) form case of 'either'. **Ans. (3)**

**Ex. 21: Statements:**

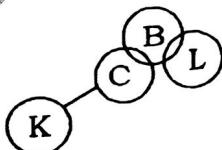
Some beggars are leaders.  
 No caps are keys.  
 Some caps are beggars.

**Conclusions:**

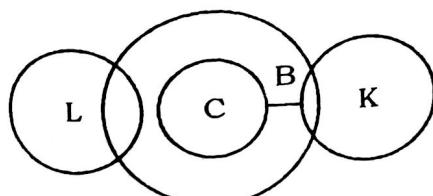
- (I) Some caps are leaders.  
 (II) Some beggars are keys.  
 (III) Some caps are not leaders.  
 (IV) Some beggars are not keys.  
 (1) Either I or III and II follow  
 (2) Either II or IV and I follow  
 (3) Either II or IV and III follow  
 (4) Either II or IV and either I or III follow  
 (5) Either I or III and IV follow

**Cap = C, Beggar = B, Leaders = L, Keys = K**

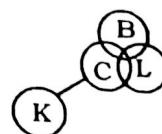
**Sol. Step I & II**



or



or



Here, conclusion I, II and III are doubtful and conclusion IV is right. Conclusion I is positive and conclusion III is negative and the terms of both the conclusions i.e. 'caps' and 'beggars' are same then conclusion I and III form case of 'either'. So answer will be either I or III and IV follow.

**Ans. (5)**

**Ex. 22: Statement:**

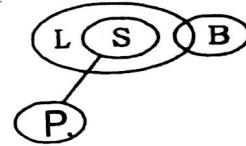
1. Some pads are not symbols.
2. All symbols are letters.
3. Some letters are boxes.

**Conclusions:**

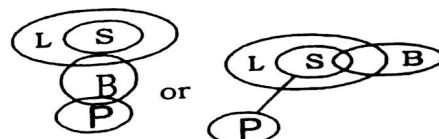
- (I) Some boxes are pads.
  - (II) Some pads are not boxes.
  - (III) Some pads are not letters.
  - (IV) All symbols are boxes.
- (1) Only I follows
  - (2) Either I or II follows
  - (3) Only IV follows
  - (4) Only III follows
  - (5) Either I or III follows

**Symbol = S, Letter = L, Boxes = B, Pads = P**

**Sol. Step I & II**



or



Here, both conclusions (I) and (II) are doubtful and conclusion (I) is positive and conclusion (II) negative and the terms of both the conclusions i.e. 'boxes' and 'pads' are same then conclusions (I) and (II) form case of 'either'. So answer will be only either (I) or (II) follow.

**Ans. (2)**

**Exercise:**

**Directions (1 - 20):** In each of the questions below are given two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**Give answer:**

- (1) if only Conclusion I follows.
- (2) if only Conclusion II follows.
- (3) if either Conclusion I or II follows.
- (4) if neither Conclusion I nor II follows.
- (5) if both Conclusions I and II follow.

1. **Statements:** Some kites are threads.  
No thread is needle.

**Conclusions:** I. Some kites are needles.  
II. No needle is thread.

2. **Statements:** Some books are pens.  
All pens are paper.

**Conclusions:** I. Some papers are books.  
II. All books are papers.

3. **Statements:** All chairs are buildings.  
All tables are buildings.

**Conclusions:** I. Some chairs are tables.  
II. Some tables are chairs.

4. **Statements:** Some trucks are houses.  
Some houses are trains.

**Conclusions:** I. Some trains are trucks.  
II. No train is truck.

5. **Statements:** A. flowers are trees.  
All trees are fruits.

**Conclusions:** I. Some fruits are flowers.  
II. All flowers are fruits.

6. **Statements:** All pens are roads.  
All roads are houses.

**Conclusions:** I. All houses are pens.  
II. Some houses are pens.

7. **Statements:** Some books are bags.  
All bags are trees.

**Conclusions:** I. Some books are trees.  
II. Some trees are books.

8. **Statements:** Some windows are doors.  
No door is chair.
- Conclusions:** I. Some windows are chairs.  
II. All doors are windows.
9. **Statements:** All forests are tigers.  
Some tigers are horses.
- Conclusions:** I. Some horses are forests.  
II. No horse is forest.
10. **Statements:** Some buses are trains.  
Some trains are boats.
- Conclusions:** I. Some trains are buses.  
II. Some boats are buses.
11. **Statements:** Some bottles are jungles.  
All jungles are birds.
- Conclusions:** I. Some birds are bottles.  
II. All bottles are birds.
12. **Statements:** Some bottles are tables.  
Some tables are mirrors.
- Conclusions:** I. Some mirrors are books.  
II. No book is mirror.
13. **Statements:** All roads are water.  
Some water is boat.
- Conclusions:** I. Some boats are roads.  
II. All waters are boats.
14. **Statements:** All flowers are trees.  
No fruit is tree.
- Conclusions:** I. No fruit is flower.  
II. Some trees are flowers.
15. **Statements:** All pens are chalks.  
All chairs are chalks.
- Conclusions:** I. Some pens are chairs.  
II. Some chalks are pens.
16. **Statements:** Some buses are bells.  
Some bells are horses.
- Conclusions:** I. Some buses are horses.  
II. Some trains are bells.
17. **Statements:** All goats are kites.  
All roses are goats.
- Conclusions:** I. Some kites are roses.  
II. Some goats are bees.

18. **Statements:** All classes are lions.  
Some birds are classes.  
All pens are lions.
- Conclusions:** I. No pen is bird.  
II. Some birds are pens.
19. **Statements:** Some candles are papers.  
All papers are trees.  
Some books are papers.
- Conclusions:** I. Some books are candles.  
II. Some trees are books.
20. **Statements:** All bats are elephants.  
Some balloons are crows.  
All crows are bats.
- Conclusions:** I. Some balloons are elephants.  
II. Some elephants are crows.
21. **Statements:** All petals are trees.  
All trees are gardens.  
All roads are gardens.
- Conclusions:** I. Some roads are trees.  
II. Some gardens are trees.  
III. Some gardens are petals.
- (1) Only I and II follow  
(2) Only II and III follow  
(3) Only I and III follow  
(4) All I, II and III follow  
(5) None of these
22. **Statements:** All keys are locks.  
No lock is toy.  
All bags are toys.
- Conclusions:** I. No bag is key.  
II. Some bags are keys.  
III. Some toys are keys.
- (1) None follows
23. **Statements:** Some days are nights.  
Some nights are months.  
Some months are years.
- Conclusions:** I. Some years are nights.  
II. Some months are days.  
III. No year is night.
- (1) Only I follows  
(2) Only II follows  
(3) Only III follows  
(4) Only either I or III follows  
(5) None of these
24. **Statements:** All cycles are tyres.  
Some tyres are wheels.  
All wheels are buses.
- Conclusions:** I. Some buses are tyres.  
II. Some wheels are tyres.  
III. Some buses are cycles.
- (1) Only I and II follow  
(2) Only I and III follow  
(3) Only II and III follow  
(4) All I, II and III follow  
(5) None of these
25. **Statements:** Some dogs are cats.  
Some cats are horses.  
All horses are tigers.
- Conclusions:** I. Some tigers are cats.  
II. Some horses are dogs.  
III. Some tigers are dogs.
- (1) None follows  
(2) Only I follows  
(3) Only II follows  
(4) Only III follows  
(5) Only II and III follow
26. **Statements:** All ropes are sticks.  
Some sticks are hammers.  
Some hammers are lakes.
- Conclusions:** I. Some lakes are ropes.  
II. Some hammers are ropes.  
III. Some lakes are sticks.

- (1) None follows  
 (2) Only I follows  
 (3) Only II follows  
 (4) Only III follows  
 (5) Only I and III follow
27. **Statements:** Some leaves are baskets.  
 Some baskets are flowers.  
 Some flowers are lakes.  
**Conclusions:** I. Some lakes are baskets.  
 II. Some flowers are lakes.  
 III. No lake is basket.
- (1) Only I follows  
 (2) Only II follows  
 (3) Only III follows  
 (4) Only either I or III follows  
 (5) None of these
28. **Statements:** All pictures are bands.  
 Some bands are chairs.  
 Some chairs are tables.  
**Conclusions:** I. Some tables are bands.  
 II. Some chairs are pictures.  
 III. Some tables are pictures.
- (1) None follows  
 (2) Only I follows  
 (3) Only II follows  
 (4) Only I and II follow  
 (5) Only III follows
29. **Statements:** Some bikes are cars.  
 Some cars are trains.  
 Some trains are buses.  
**Conclusions:** I. Some buses are cars.  
 II. Some trains are bikes.  
 III. Some buses are bikes.
- (1) None follows  
 (2) Only I follows  
 (3) Only II follows  
 (4) Only III follows  
 (5) Only I and II follow
30. **Statements:** All dogs are cats.  
 Some cats are rats.  
 All rats are mats.  
**Conclusions:** I. Some mats are cats.  
 II. Some mats are dogs.  
 III. Some rats are cats.
- (1) Only I follows  
 (2) Only II follows
- (3) Only III follows  
 (4) Only I and III follow  
 (5) None of these
31. **Statements:** All cups are benches.  
 Some benches are drums.  
 All drums are kites.  
**Conclusions:** I. Some kites are cups.  
 II. Some kites are benches.  
 III. Some drums are cups.
- (1) None follows  
 (2) Only I follows  
 (3) Only II follows  
 (4) Only III follows  
 (5) Only II and III follow
32. **Statements:** Some boxes are walls.  
 No wall is road.  
 All roads are rivers.  
**Conclusions:** I. Some rivers are walls  
 II. Some roads are boxes  
 III. No wall is river
- (1) Only I follows  
 (2) Only either I or III follows  
 (3) Only III follows  
 (4) Only II follows  
 (5) Only II and III follow
33. **Statements:** Some tables are chairs.  
 All chairs are houses.  
 All houses are tents.  
**Conclusions:** I. All houses are chairs.  
 II. Some tents are chairs.  
 III. Some houses are tables.
- (1) Only I and II follow  
 (2) Only I and III follow  
 (3) Only II and III follow  
 (4) All I, II and III follow  
 (5) None of these
34. **Statements:** All pens are sticks.  
 All sticks are rings.  
 All rings are rods.  
**Conclusions:** I. Some rings are pens.  
 II. Some rods are sticks.  
 III. Some rods are pens.
- (1) Only I and II follow  
 (2) Only I and III follow  
 (3) Only II and III follow  
 (4) All I, II and III follow  
 (5) None of these

**Directions (35 - 39):** In each of the questions below are given three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

35. **Statements:** All flowers are rooms.  
Some rooms are windows.  
All cards are windows.

- Conclusions:** I. Some cards are flowers.  
II. Some cards are rooms.  
III. Some windows are flowers.  
IV. All cards are rooms.

- (1) None follows  
(2) Only II follows  
(3) Only I follows  
(4) Only III follows  
(5) Only IV follows

36. **Statements:** All males are wolves.  
All owls are males.  
All parrots are owls.

- Conclusions:** I. All wolves are owls.  
II. All owls are wolves.  
III. All parrots are wolves.  
IV. All parrots are males.

- (1) All follow  
(2) Only III and IV follow  
(3) Only II and III follow  
(4) Only II, III and IV follow  
(5) None of these

37. **Statements:** Some leaves are skies.  
All skies are clouds.  
No cloud is a boat.

- Conclusions:** I. Some boats are leaves.  
II. Some clouds are leaves.  
III. All skies are leaves.  
IV. No leaf is a boat.

- (1) Only I, II and IV follow  
(2) Only II, III and IV follow  
(3) Either I or IV and II follow

- (4) Either I or IV and III follow  
(5) None of these

38. **Statements:** No building is white.  
All whites are oranges.  
Some oranges are water.  
**Conclusions:** I. No building is water.  
II. No orange is a building.  
III. Some oranges are whites.  
IV. Some water is building.

- (1) Either I or IV and II follow  
(2) Either I or IV and III follow  
(3) Either I or IV follows  
(4) None follows  
(5) Either I or IV and II and III follow

39. **Statements:** Some mangoes are apples.  
Some bananas are apples.  
Some branches are bananas.  
**Conclusions:** I. Some mangoes are bananas.  
II. Some branches are apples.  
III. Some branches are mangoes.  
IV. All apples are mangoes.

- (1) None follows  
(2) Only I and II follow  
(3) Only III and IV follow  
(4) Only I and IV follow  
(5) All follow

**Directions (40 - 50):** In each of the questions below are given four statements followed by three conclusions numbered I, II, and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

40. **Statements:** Some nails are plates.  
Some plates are disks.  
All disks are mirrors.  
All mirrors are tyres.

- Conclusions:** I. Some tyres are plates.  
II. Some tyres are nails.  
III. Some mirrors are plates.

- (1) Only I and II follow
- (2) Only I and III follow
- (3) Only II and III follow
- (4) All I, II and III follow
- (5) None of these

41. **Statements:** Some windows are lakes.  
Some lakes are forests.  
Some forests are hills.  
All hills are curtains.

**Conclusions:** I. Some hills are windows.  
II. Some curtains are lakes.  
III. Some forests are windows.

- (1) None follows
- (2) Only I follows
- (3) Only II follows
- (4) Only III follows
- (5) Only I and III follow

42. **Statements:** All tapes are branches.  
Some branches are roads.  
All roads are fruits.  
Some fruits are trees.

**Conclusions:** I. Some trees are tapes.  
II. Some fruits are tapes.  
III. Some fruits are branches.

- (1) None follows
- (2) Only I follows
- (3) Only II follows
- (4) Only III follows
- (5) Only II and III follow

43. **Statements:** Some pearls are chairs.  
All chairs are trucks.  
Some trucks are bricks.  
All bricks are cars.

**Conclusions:** I. Some cars are chairs.  
II. Some cars are trucks.  
III. Some trucks are pearls.

- (1) Only I and II follow
- (2) Only I and III follow
- (3) Only II and III follow
- (4) All I, II and III follow
- (5) None of these

44. **Statements:** Some flowers are houses.  
All houses are tigers.

All tigers are goats.  
Some goats are bullocks.  
**I.** Some goats are flowers.  
**II.** Some tigers are flowers.  
**III.** Some bullocks are tigers.

- (1) Only I and II follow
- (2) Only II and III follow
- (3) Only I and III follow
- (4) All I, II and III follow
- (5) None of these

45. **Statements:** All cars are jeeps.  
All jeeps are buses.  
All buses are trucks.  
Some trucks are pens.  
**Conclusions:** I. All trucks are buses.  
II. All buses are jeeps.  
III. All jeeps are cars.

- (1) None follows
- (2) All follows
- (3) Only III and I follow
- (4) Only III follows
- (5) None of these

46. **Statements:** Some skies are rains.  
Some rains are stars.  
All stars are planets.  
All planets are clouds.

**Conclusions:** I. Some clouds are rains.  
II. Some planets are skies.  
III. Some planets are rains.

- (1) Only I and II follow
- (2) Only I and III follow
- (3) Only II and III follow
- (4) All I, II and III follow
- (5) None of these

47. **Statements:** Some books are pens.  
Some pens are watches.  
All watches are books.  
Some books are windows.  
**Conclusions:** I. Some books are watches.  
II. Some books are not pens.  
III. Some watches are not books.

- (1) All follow
- (2) Only I and III follow
- (3) Only I and II follow
- (4) Only II and III follow
- (5) None of these

48. **Statements:** All spoons are bowls.  
All bowls are pans.  
All pans are sticks.  
All sticks are knives.

**Conclusions:** I. Some knives are pans.  
II. Some sticks are bowls.  
III. Some pans are spoons.

- (1) Only I and II follow
- (2) Only II and III follow
- (3) Only I and III follow
- (4) All I, II and III follow
- (5) None of these

49. **Statements:** All threads are walls.  
All lamps are walls.

Some kites are lamps.  
Some lamps are rays.  
**Conclusions:** I. Some kites are threads.  
II. Some kites are walls.  
III. Some lamps are threads.

- (1) None follows
- (2) Only I follows
- (3) Only II follows
- (4) Only III follows
- (5) Only I and III follow

50. **Statements:** Some tables are chairs.  
Some chairs are wheels.  
Some wheels are boards.

Some boards are chalks.  
**Conclusions:** I. Some chalks are wheels.  
II. Some boards are chairs.  
III. Some wheels are tables.

- (1) None follows
- (2) Only I follows
- (3) Only II follows
- (4) Only III follows
- (5) Only II and III follow

#### Answers with explanation:

**Note :** The signs with their relevant meaning are given below :  
 ✓ = True (follow)  
 ✗ = False (does not follow)  
 - = may or may not true (does not follow)

1. 2;



**Conclusion:** I -

II ✓

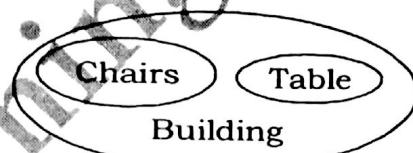
2. 1;



**Conclusion:** I ✓

II -

3. 4;



**Conclusion:** I -

II -

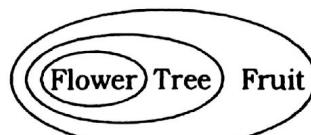
4. 3;



**Conclusion:** I -

II - or

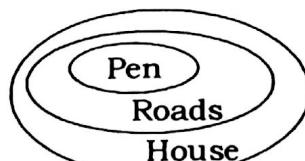
5. 5;



**Conclusion:** I ✓

II ✓

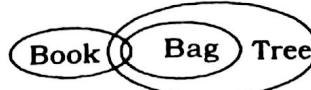
6. 2;



**Conclusion:** I -

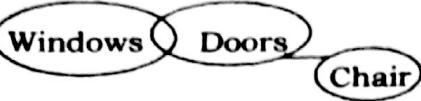
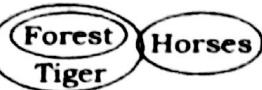
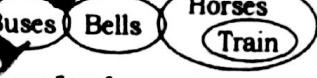
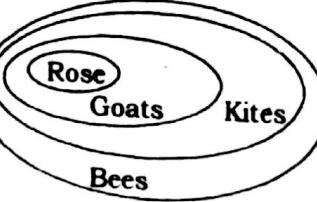
II ✓

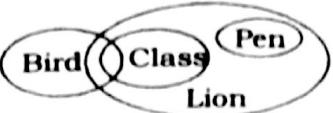
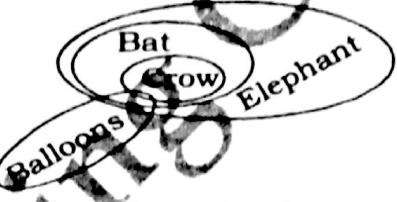
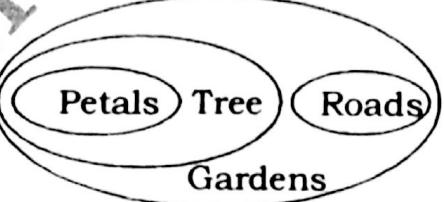
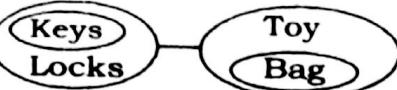
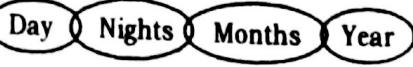
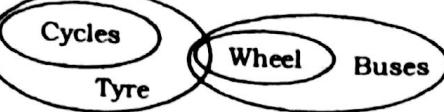
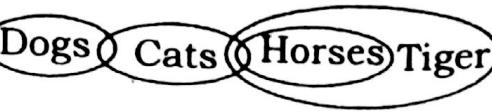
7. 5;



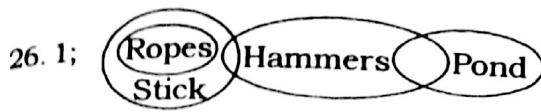
**Conclusion:** I ✓

II ✓

8. 4;   
**Conclusion:** I - ✓  
II - ✓
9. 3;   
**Conclusion:** I - [ ] or  
II - [ ]
10. 1;   
**Conclusion:** I - ✓  
II - -
11. 1;   
**Conclusion:** I - ✓  
II - -
12. 3;   
**Conclusion:** I - [ ] or  
II - [ ]
13. 4;   
**Conclusion:** I - -  
II - -
14. 5;   
**Conclusion:** I - -  
II - -
15. 2;   
**Conclusion:** I - -  
II - ✓
16. 4;   
**Conclusion:** I - -  
II - -
17. 5; 

- Conclusion: I - ✓  
II - ✓
18. 3;   
**Conclusion:** I - [ ] or  
II - [ ]
19. 2;   
**Conclusion:** I - -  
II - ✓
20. 5;   
**Conclusion:** I - ✓  
II - ✓
21. 2;   
**Conclusion:** I - -  
II - ✓  
III - ✓
22. 2;   
**Conclusion:** I - ✓  
II - ✗  
III - ✗
23. 4;   
**Conclusion:** I - [ ]  
II - [ ] or  
III - [ ]
24. 1;   
**Conclusion:** I - ✓  
II - ✓  
III - -
25. 2; 

**Conclusion:** I ✓  
II -  
III -

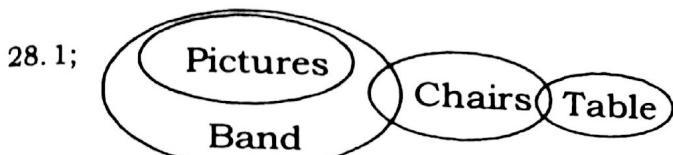


**Conclusion:** I -  
II -  
III -

27. 5; Only either I or III and II follow.



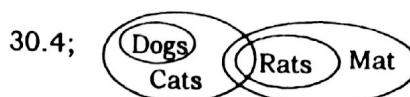
**Conclusion:** I -  
II ✓ or  
III -



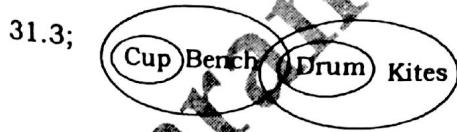
**Conclusion:** I -  
II -  
III -



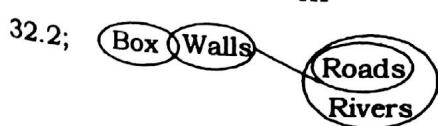
**Conclusion:** I -  
II -  
III -



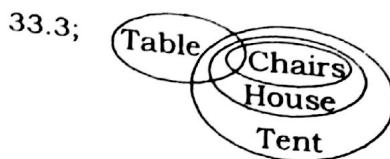
**Conclusion:** I ✓  
II -  
III ✓



**Conclusion:** I -  
II ✓  
III -

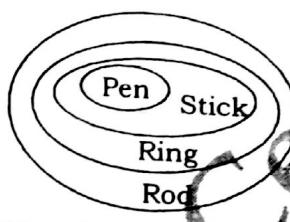


**Conclusion:** I -  
II - or  
III -



**Conclusion:** I -  
II ✓  
III ✓

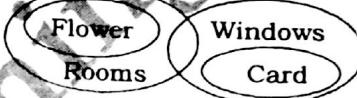
34. 4;



**Conclusion:** I -

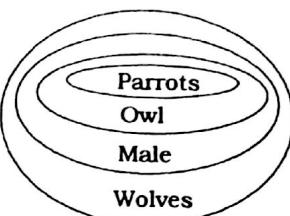
II ✓  
III ✓

35. 1;



**Conclusion:** I -  
II -  
III -  
IV -

36. 4;



**Conclusion:** I -  
II ✓  
III ✓  
IV ✓

37. 3;



**Conclusion:** I -  
II ✓  
III - or  
IV -

38. 2;

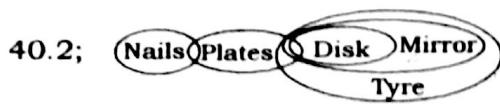


**Conclusion:** I -  
II -  
III ✓ or  
IV -



**Conclusion:**

- I -
- II -
- III -
- IV -



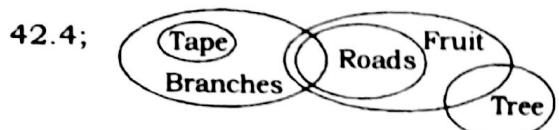
**Conclusion:**

- I ✓
- II -
- III ✓



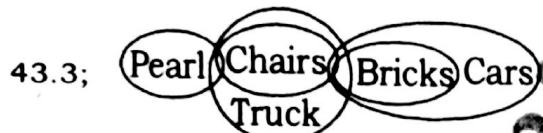
**Conclusion:**

- I -
- II -
- III -



**Conclusion:**

- I -
- II -
- III ✓



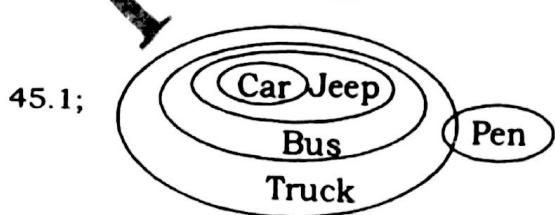
**Conclusion:**

- I -
- II ✓
- III ✓



**Conclusion:**

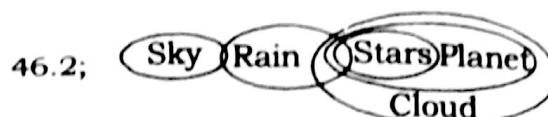
- I ✓
- II ✓
- III -



**Conclusion:**

- I -
- II -

III -



**Conclusion:**

- I ✓
- II -
- III ✓

47.5; Only I follows.



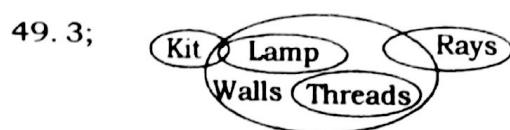
**Conclusion:**

- I -
- II -
- III ✗



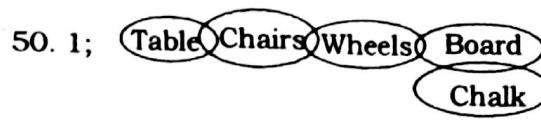
**Conclusion:**

- I ✓
- II ✓
- III ✓



**Conclusion:**

- I -
- II ✓
- III -



**Conclusion:**

- I -
- II -
- III -

# **REASONING**

## **VOLUME - 2**

**POT COM**

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# MATRIX

**Directions (Question Nos. 1 to 8) :** 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 alternative are represented by two classes of alphabets as in the 2 matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II from 5 to 9. A letter from these matrices can be represented first by its row and next by column number. For eg. in question no. 1) E can be represented by 11, 30 etc. U can be represented by 58, 59 etc.

1. Identify the set for the word FISH.

**MATRIX-I**

0	1	2	3	4
0	M	L	F	H
1	H	B	M	L
2	L	F	H	B
3	B	M	L	F
4	F	H	B	M

**MATRIX-II**

5	6	7	8	9
5	I	K	S	U
6	U	N	I	K
7	K	S	U	N
8	N	I	K	S
9	S	U	N	I

- (A) 22, 81, 14, 69    (B) 33, 86, 88, 41  
 (C) 33, 88, 67, 22    (D) 02, 67, 34, 88

2. Identify the set for the word MILK.

**MATRIX-I**

0	1	2	3	4
0	M	L	F	H
1	H	B	M	L
2	L	F	H	B
3	B	M	L	F
4	F	H	B	M

**MATRIX-II**

5	6	7	8	9
5	I	K	S	U
6	U	N	I	K
7	K	S	U	N
8	N	I	K	S
9	S	U	N	I

- (A) 12, 67, 32, 99    (B) 31, 86, 33, 87  
 (C) 21, 76, 32, 95    (D) 10, 67, 42, 88

3. Identify the set for the word NIFE.

**MATRIX-I**

0	1	2	3	4
0	E	F	G	H
1	H	I	E	F
2	F	G	H	I
3	I	B	F	G
4	G	H	I	E

**MATRIX-II**

5	6	7	8	9
5	L	M	N	O
6	O	P	L	M
7	M	N	O	P
8	P	L	M	N
9	N	O	P	L

- (A) 95, 30, 32, 43    (B) 95, 30, 31, 43  
 (C) 57, 42, 31, 43    (D) 57, 41, 32, 43

4. Identify the set for the word PEN.

**MATRIX-I**

0	1	2	3	4
0	E	F	G	H
1	H	I	E	F
2	F	G	H	I
3	I	B	F	G
4	G	H	I	E

**MATRIX-II**

5	6	7	8	9
5	L	M	N	O
6	O	P	L	M
7	M	N	O	P
8	P	L	M	N
9	N	O	P	L

- (A) 66, 30, 95    (B) 85, 00, 95  
 (C) 86, 00, 95    (D) 65, 00, 95

5. Identify the set for the word DOOR.

**MATRIX-I**

0	1	2	3	4
0	F	O	M	S
1	S	R	F	O
2	O	M	S	R
3	R	E	O	M
4	M	S	R	F

**MATRIX-II**

5	6	7	8	9
5	A	T	D	I
6	I	P	A	T
7	T	D	I	P
8	P	A	T	D
9	D	I	P	A

- (A) 69, 44, 20, 43    (B) 76, 01, 44, 24  
 (C) 95, 20, 44, 12    (D) 57, 13, 32, 23

6. Identify the set for the word PUSH.

**MATRIX-I**

0	1	2	3
0	A	D	G
1	P	S	V
2	C	F	I
3	T	L	E

**MATRIX-II**

4	5	6	7
4	R	U	B
5	N	W	J
6	T	K	S
7	I	H	A

- (A) 10, 66, 45, 03    (B) 30, 11, 54, 10  
 (C) 10, 45, 66, 75    (D) 01, 54, 66, 57

7. Identify the set for the word MEAL.

**MATRIX-I**

0	1	2	3
0	A	M	T
1	T	I	A
2	I	A	M
3	M	T	I

**MATRIX-II**

4	5	6	7
4	E	B	L
5	L	U	E
6	U	E	B
7	B	L	U

- (A) 13, 44, 23, 46    (B) 22, 64, 54, 65  
 (C) 30, 56, 21, 67    (D) 01, 65, 12, 31

8. Identify the set for the word GUIDE.

**MATRIX-I**

	0	1	2	3	4
0	I	E	A	O	U
1	A	O	U	I	E
2	E	I	O	U	A
3	O	U	E	A	I
4	U	A	I	E	O

**MATRIX-II**

	5	6	7	8	9
5	F	D	B	G	H
6	B	G	H	F	D
7	D	F	G	H	B
8	G	H	D	B	F
9	H	B	F	G	D

- (A) 85, 23, 21, 87, 32  
 (B) 58, 31, 12, 57, 41  
 (C) 77, 13, 42, 99, 32  
 (D) 66, 31, 43, 78, 14

**Direction (Question nos. 9 to 10) :** Identify the set for the word given in each question.

**MATRIX-I**

	0	1	2	3	4
0	F	O	M	S	R
1	S	R	F	O	M
2	O	M	S	R	F
3	R	F	O	M	S
4	M	S	R	F	O

**MATRIX-II**

	5	6	7	8	9
5	S	A	T	D	I
6	I	P	A	T	D
7	T	D	I	P	A
8	P	A	T	D	I
9	D	I	P	A	T

9. FARM  
 (A) 00, 98, 23, 34  
 (B) 12, 67, 04, 34  
 (C) 43, 67, 11, 33  
 (D) 24, 67, 11, 41
10. SOAP  
 (A) 10, 13, 67, 58  
 (B) 22, 01, 55, 66  
 (C) 34, 32, 79, 76  
 (D) 41, 44, 98, 99

**Direction (Question nos. 11 to 15) :** Identify the set for the word given in each question.

**MATRIX-I**

	0	1	2	3	4
0	A	R	S	N	C
1	N	C	A	R	S
2	S	N	C	A	R
3	R	S	N	C	A
4	C	A	R	S	N

**MATRIX-II**

	5	6	7	8	9
5	S	O	E	L	P
6	T	O	E	L	P
7	P	T	O	E	L
8	L	P	T	O	E
9	E	L	P	T	O

11. PAST  
 (A) 75, 21, 14, 65  
 (C) 58, 41, 12, 67  
 (B) 86, 12, 31, 76  
 (D) 88, 77, 41, 67

12. RATE  
 (A) 13, 12, 98, 67  
 (C) 30, 14, 95, 89  
 (B) 42, 23, 56, 76  
 (D) 24, 43, 89, 95

13. POET  
 (A) 69, 88, 67, 65  
 (C) 77, 88, 98, 78  
 (B) 75, 55, 65, 67  
 (D) 75, 66, 76, 78

14. NEST  
 (A) 32, 56, 20, 89  
 (C) 32, 76, 34, 98  
 (B) 10, 65, 41, 76  
 (D) 21, 67, 14, 59

15. PEST  
 (A) 97, 89, 34, 59  
 (C) 57, 59, 31, 98  
 (B) 58, 67, 43, 98  
 (D) 68, 95, 31, 76

16. Find the correct set of pairs of letters for the number given with the help of the two given matrices.

Given Number : 2468

**MATRIX-I**

A	B	C	D	E
1	2	3	4	5
2	4	1	2	3
3	3	2	5	1
4	5	4	1	2
5	3	1	4	5

**MATRIX-II**

P	Q	R	S	T
0	6	7	8	9
9	8	6	7	0
0	7	9	8	6
8	9	0	6	7
6	0	7	9	8

- (A) AB, DD, RT, PQ  
 (B) CB, CE, SS, QQ  
 (C) DD, CB, PQ, RS  
 (D) EE, AB, TP, TT

# ANSWERS

1. (B) The numerical groups of FISH will be —

**F** = 02, 14, 21, **33**, 40

**I** = 55, 67, 79, **86**, 98

**S** = 57, 69, 76, **88**, 95

**H** = 03, 10, 22, 34, **41**

2. (A) The numerical groups of MILK will be —

**M** = 00, **12**, 24, 31, 43

**I** = 55, **67**, 79, 86, 98

**L** = 01, 13, 20, **32**, 44

**K** = 56, 68, 75, 87, **99**

3. (A) The numerical group of NIFE will be

**N** = 57, 69, 76, 88, **95**

**I** = 04, 11, 23, **30**, 42

**F** = 01, 13, 20, **32**, 44

**E** = 00, 12, 24, 31, **43**

4. (B) The numerical groups of PEN will be

**P** = 59, 66, 78, **85**, 97

**E** = **00**, 12, 24, 31, 43

**N** = 57, 69, 76, 88, **95**

5. (B) The numerical groups of DOOL will be

**D** = **57**, 69, 76, 88, 95

**O** = 01, **13**, 20, 32, 44

**O** = 01, 13, 20, **32**, 44

**L** = 04, 11, **23**, 30, 42

6. (C) The numerical value of P U S H Will be-

**P** = 10

**U** = 45

**S** = 66

**H** = 75

7. (C) The numerical groups of MEAL will be

**M** - 01, 13, 22, **30**

**E** - 44, **56**, 65, 77

**A** - 00, 12, **21**, 33

**L** - 46, 54, **67**, 75

8. (A) The numerical groups of GUIDE will be—

**G** - 58, 66, 77, **85**, 98

**U** - 04, 12, **23**, 31, 40

**I** - 00, 13, **21**, 34, 42

**D** - 56, 69, 75, **87**, 99

**E** - 01, 14, 20, **32**, 43

9. (C) The numerical groups of FARM will be—

**F** - 00, **12**, 24, 31, **43**

**A** - 55, **67**, 79, 86, 98

**R** - 04, **11**, 23, 30, 42

**M** - **02**, 14, 21, **33**, 40

10. (B) The numerical groups of SOAP will be—

**S** - 03, 10, **22**, 34, 41

**O** - **01**, 13, 20, 32, 44

**A** - **55**, 67, 79, 86, 98

**P** - 59, **66**, 78, 85, 97

11-15: The numerical groups of all the letters will be—

**A** = 00, 12, 23, 34, 41

**R** = 01, 13, 24, 30, 42

**S** = 02, 14, 20, 31, 43

**N** = 03, 10, 21, 32, 44

**C** = 04, 11, 22, 33, 40

**O** = 55, 66, 77, 88, 99

**E** = 56, 67, 78, 89, 95

**L** = 57, 68, 79, 85, 96

**P** = 58, 69, 75, 86, 97

**T** = 59, 65, 76, 87, 98

11. (B) 86, 12, 31, 76

12. (A) 13, 12, 98, 67

13. (A) 69, 88, 67, 65

14. (D) 21, 67, 14, 52

15. (B) 58, 67, 43, 98

16. (B) The alphabetical groups of all the numbers will be—

2 = AB, BC, **CB**, DD, EE

4 = AD, BA, **CE**, DB, EC

6 = PQ, QR, RT, **SS**, TP

8 = PS, **QQ**, RS, SP, TT

## **ANALOGY TEST (TYPE - I)**

**Directions:** In questions given below, select the number from the given alternatives.

1.  $2 : 7 :: 6 : ?$   
(A) 40  
(C) 50  
(B) 39  
(D) 72

2.  $7 : 17 :: ? : 50$   
(A) 23  
(C) 124  
(B) 26  
(D) 126

3.  $1 : 8 :: 27 : ?$   
(A) 37  
(C) 57  
(B) 47  
(D) 64

4.  $4 : 17 :: 7 : ?$   
(A) 48  
(C) 50  
(B) 49  
(D) 51

5.  $3 : 27 :: 7 : ?$   
(A) 21  
(C) 147  
(B) 42  
(D) 343

6.  $9 : 28 :: 56 : ?$   
(A) 3  
(C) 112  
(B) 18  
(D) 169

7.  $6 : 2 :: 8 : ?$   
(A) 1  
(C) 7  
(B) 3  
(D) 5

8.  $1 : 8 :: 4 : ?$   
(A) 64  
(C) 128  
(B) 512  
(D) 32

9.  $8 : 12 :: 6 : ?$   
(A) 8  
(C) 5  
(B) 11  
(D) 9

10.  $21 : 3 :: 574 : ?$   
(A) 23  
(C) 97  
(B) 82  
(D) 113

11.  $63 : 9 :: ? : 14$   
(A) 68  
(C) 96  
(B) 42  
(D) 56

12.  $16 : 4 :: 9 : ?$   
(A) 4  
(C) 1  
(B) 25  
(D) 2

13.  $27 : ? :: 125 : 25$   
(A) 3  
(C) 18  
(B) 9  
(D) 125

14.  $625 : 25 :: 225 : ?$   
(A) 13  
(C) 15  
(B) 14  
(D) 16

15.  $384 : ? :: 216 : 63$   
(A) 128  
(C) 113  
(B) 124  
(D) 192

16.  $12 : 16 :: 36 : ?$   
(A) 48  
(C) 40  
(B) 32  
(D) 45

17.  $248 : 3 :: 328 : ?$   
(A) 7  
(C) 4  
(B) 5  
(D) 6

18.  $6 : 222 :: 7 : ?$   
(A) 350  
(C) 336  
(B) 343  
(D) 210

19.  $72 : 18 :: 56 : ?$   
(A) 24  
(C) 20  
(B) 22  
(D) 16

20.  $16 : 56 :: 32 : ?$   
(A) 96  
(C) 120  
(B) 112  
(D) 128

21.  $24 : 27 :: ? : 81$   
(A) 8  
(C) 72  
(B) 62  
(D) 82

22.  $47 : 65 :: 59 : ?$   
(A) 95  
(C) 106  
(B) 110  
(D) 118

23.  $83 : 25 :: 39 : ?$   
(A) 25  
(C) 49  
(B) 16  
(D) 36

24.  $13 : 24 :: ? : ?$   
(A) 45 : 79  
(C) 35 : 59  
(B) 56 : 78  
(D) 57 : 68

25.  $12 : 35 :: 16 : ?$   
(A) 78  
(C) 55  
(B) 32  
(D) 63

26.  $18 : 30 :: 36 : ?$   
(A) 64  
(C) 54  
(B) 66  
(D) 62

27.  $42 : 56 :: 132 : ?$   
(A) 156  
(C) 110  
(B) 145  
(D) 240

28.  $19 : 37 :: 26 : ?$   
(A) 52  
(C) 46  
(B) 51  
(D) 43

29.  $940 : 5 :: 376 : ?$   
(A) 3  
(C) 6  
(B) 2  
(D) 43

30.  $24 : 126 :: 48 : ?$   
(A) 433  
(C) 240  
(B) 192  
(D) 344



# ANSWERS

1. (B)  $\frac{2}{(2^2+3)} : \frac{7}{(2^2+3)} :: \frac{6}{(6^2+3)} : \frac{39}{(6^2+3)}$

2. (A)  $\frac{7}{7 \times 2+3} : \frac{17}{23 \times 2+4} :: \frac{23}{(6^2+3)} : \frac{50}{(7^2+7)}$

3. (D)  $\frac{1}{(1)^3} : \frac{8}{(2)^3} :: \frac{27}{(3)^3} : \frac{64}{(4)^3}$

4. (C)  $\frac{4}{(4^2+1)} : \frac{17}{(7^2+1)} :: \frac{7}{(7^2+1)} : \frac{50}{(5^2+5)}$

5. (D)  $\frac{3}{(3)^3} : \frac{27}{(7)^3} :: \frac{7}{(7)^3} : \frac{343}{(5)^3}$

6. (D)  $\frac{9}{(\times 3+1)} : \frac{28}{(\times 3+1)} :: \frac{56}{(\times 3+1)} : \frac{169}{(\times 3+1)}$

7. (B)  $\frac{6}{(6 \div 2)} : \frac{2}{(2 \div 1)} :: \frac{8}{(8 \div 2)} : \frac{3}{(3 \div 1)}$

8. (B)  $\frac{1}{(1)^3 \times 8 = 8} : \frac{8}{(4)^3 \times 8 = 512} :: \frac{512}{512}$

9. (D)  $8 \times 1.5 = 12$   
Similarly,  $6 \times 1.5 = 9$

10. (B)  $\frac{21}{\div 7} : \frac{3}{\div 7} :: \frac{574}{\div 7} : \frac{82}{\div 7}$

11. (A)  $\frac{63}{6+3=9} : \frac{9}{6+8=14} :: \frac{68}{6+8=14} : \frac{14}{6+3=9}$

12. (C)  $\frac{16}{(4)^2} : \frac{4}{(2)^2} :: \frac{9}{(3)^2} : \frac{1}{(1)^2}$

13. (B)  $\frac{27}{(3)^3} : \frac{9}{(3)^2} :: \frac{125}{(5)^3} : \frac{25}{(5)^2}$

14. (C)  $\frac{625}{\sqrt{625}} : \frac{25}{25} :: \frac{225}{\sqrt{225}} : \frac{15}{15}$

15. (C)

16. (A)  $3 \times 6 \times 5 = 90$   
Similarly,  $6 \times 2 \times 3 = 36$

17. (C)  $\frac{2}{(2^2-1)} : \frac{4}{(2^2-1)} :: \frac{3}{(3^2-1)} : \frac{8}{(3^2-1)}$

18. (A)  $\frac{6}{(6)^3+6} : \frac{222}{(7)^3+7} :: \frac{7}{(7)^3+7} : \frac{350}{(8)^3+8}$

19. (B);  $7+2=9$ ,  $9 \times 2=18$ ,  
So,  $5+6=11$ ,  $11 \times 2=22$

20. (B)  $\frac{16}{[(16 \times 3)+(16 \div 2)]} : \frac{56}{[(32 \times 3)+(32 \div 2)]} :: \frac{32}{[(32 \times 3)+(32 \div 2)]} : \frac{112}{[(32 \times 3)+(32 \div 2)]}$

21. (C)  $\frac{24}{\times 3} : \frac{27}{\times 3} :: \frac{72}{\times 3} : \frac{81}{\times 3}$

22. (C)  $\frac{4}{4^2+7^2} : \frac{7}{5^2+9^2} :: \frac{65}{4^2+7^2} : \frac{106}{5^2+9^2}$

23. (D)  $8-3 \Rightarrow 5 \Rightarrow 5^2=25$   
Similarly,  $9-3 \Rightarrow 6 \Rightarrow 6^2=36$

24. (D)  $\frac{13}{+11} : \frac{24}{+11} :: \frac{57}{+11} : \frac{68}{+11}$

25. (D)  $\frac{12}{(\times 3-1)} : \frac{35}{(\times 3-1)} :: \frac{16}{(\times 4-1)} : \frac{63}{(\times 4-1)}$

26. (B)  $\frac{18}{(\times 2-6)} : \frac{30}{(\times 2-6)} :: \frac{36}{(\times 2-6)} : \frac{66}{(\times 2-6)}$

$$\therefore \frac{51}{\frac{50}{51}} = \frac{51}{50} \times \frac{5000}{51} = 100$$

27. (A)  $\frac{42}{(7^2-7)} : \frac{56}{(8^2-8)} :: \frac{132}{(12^2-12)} : \frac{156}{(13^2-13)}$

28. (B)  $\frac{19}{(19 \times 2 - 1)} : \frac{37}{(26 \times 2 - 1)} :: \frac{26}{(26 \times 2 - 1)} : \frac{51}{(26 \times 2 - 1)}$

29. (B)  $940 \div 5 = 188$   
Similarly

$$376 \div x = 188$$

$$x = 376 \div 188$$

$$\therefore x = 2$$

30. (D)  $\frac{24}{(5)^2-1} : \frac{126}{(5)^3+1} :: \frac{48}{(7)^2-1} : \frac{344}{(7)^3+1}$

31. (B)  $\frac{10}{10 \times 10 + 1} :: \frac{101}{20} :: \frac{20}{20 \times 10 + 1} : 201$

32. (B)  $\frac{25 \times 125}{\times 5} :: \frac{625}{\times 5} : 3125$

33. (C) The difference of  $436 - 212 = 224$   
So,  $560 + 224 = 784$

34. (A)  $\frac{435}{+333} :: \frac{768}{\uparrow} :: \frac{324}{-333} : 657$

35. (C)  $\frac{204}{1428+7} :: \frac{1428}{637+7} : 91$

36. (C)  $0.16 \Rightarrow \frac{0.16}{100} = 0.0016$

Similarly,  $1.02 \Rightarrow \frac{1.02}{100} = 0.0102$

37. (A)  $\frac{196}{(14)^2} :: \frac{169}{(13)^2} :: \frac{81}{(9)^2} : \frac{64}{(8)^2}$

38. (C)  $C : 16 :: F : 49$   
 $(3+1=4) \quad (6+1=7)$   
Square Square

39. (C)  $M : 46 :: H : 81$   
 $\frac{13}{(1+3=4)} \quad \frac{15}{(1+5=6)} : \frac{8}{(1+0=1)} \quad \frac{10}{}$

40. (B) According to English Alphabet the ranking value of I = 9, H = 8 and G = 7. Similarly, the ranking value of 654 will be F = 6, E = 5 and D = 4.

41. (C)  $\frac{M \times N}{[place\ value]} :: \frac{13 \times 14}{[place\ value]} :: \frac{F \times R}{[place\ value]} : \frac{6 \times 18}{[place\ value]}$

42. (D)  $\frac{1 \times M}{[place\ value]} :: \frac{12 \times 13}{[place\ value]} :: \frac{U \times W}{[place\ value]} : \frac{21 \times 23}{[place\ value]}$

43. (C)  $\frac{16 \times 48}{[\times 3]} :: \frac{13 \times 39}{[\times 3]} :: \frac{22 \times 66}{[\times 3]} : \frac{14 \times 42}{[\times 3]}$

44. (C)  $7 \times 7 = 49$  and  $14 \times 14 = 196$   
 $7 \times 8 = 56$  and  $14 \times 15 = 210$

Similarly,

$21 \times 21 = 441$

$21 \times 22 = 462$

$(11 \times 11-11)$

45. (B)  $\frac{11}{(11 \times 11)} :: \frac{121}{(11 \times 11)} : \frac{110}{(15 \times 15)} :: \frac{15}{(15 \times 15)} : \frac{225}{(15 \times 15)} : 210$

$\therefore \frac{19}{(19 \times 19)} : \frac{361}{(19 \times 19)} : 342$

46. (B)  $\begin{array}{ccccc} 2 & 4 & 2 & 4 & 16 \\ | & | & | & | & | \\ \text{Square} & \text{Square} & \text{Square} & \text{Square} & \end{array} : \begin{array}{ccccc} 1 & 1 & 1 & 1 & 1 \\ | & | & | & | & | \\ \text{Square} & \text{Square} & \text{Square} & \text{Square} & \end{array}$

47. (B)  $\begin{array}{ccccc} 4 & 16 & 4 & 2 & 4 \\ | & | & | & | & | \\ 2 & 2 & 2 & 2 & 2 \\ | & | & | & | & | \\ 4 \times 4 & & 4 \times 4 & & 4 \times 4 \\ | & & | & & | \\ 2 \times 2 & & 2 \times 2 & & 2 \times 2 \\ | & & | & & | \\ 2 & & 2 & & 2 \end{array} : \begin{array}{ccccc} 9 & 81 & 9 & 3 & 9 \\ | & | & | & | & | \\ 3 \times 3 & 3 \times 3 & 3 \times 3 & 3 \times 3 & 3 \times 3 \\ | & | & | & | & | \\ 9 \times 9 & & 9 \times 9 & & 9 \times 9 \\ | & & | & & | \\ 3 \times 3 & & 3 \times 3 & & 3 \times 3 \end{array}$

## ANALOGY TEST (TYPE - II)

**Directions:** In questions given below, select the word from the given alternatives.

- |  |   |
|--|---|
| <p>1. Sleep : Rest :: Play : ?<br/>           (A) Enjoyment                    (B) Learning<br/>           (C) Injury                      (D) Champion</p> <p>2. FOX : CUNNING :: RABBIT : ?<br/>           (A) Courageous                 (B) Dangerous<br/>           (C) Timid                      (D) Ferocious</p> <p>3. FLEXIBLE : RIGID :: CONFIDENCE : ?<br/>           (A) DIFFIDENCE                (B) INDIFFERENCE<br/>           (C) COWARDICE                (D) SCARE</p> <p>4. Grain : Warehouse :: Water : ?<br/>           (A) Drink                      (B) Dam<br/>           (C) Canal                     (D) River</p> <p>5. DOCTOR : PATIENT :: LAWYER : ?<br/>           (A) CUSTOMER                 (B) CLIENT<br/>           (C) CONSUMER                (D) BUYER</p> <p>6. Encouragement : Victory :: Frustration : ?<br/>           (A) Stalemate                (B) Anger<br/>           (C) Failure                   (D) Anxiety</p> <p>7. Dog : Canine :: Horse : ?<br/>           (A) Grass                     (B) Race<br/>           (C) Hoof                     (D) Transport</p> <p>8. Book : Publisher : Film : ?<br/>           (A) Writer                    (B) Editor<br/>           (C) Producer                (D) Director</p> <p>9. MAN : BIOGRAPHY :: NATION : ?<br/>           (A) PEOPLE                    (B) POPULATION<br/>           (C) GEOGRAPHY               (D) HISTORY</p> <p>10. Carrot : Root :: Apple : ?<br/>           (A) Plant                    (B) Fruit<br/>           (C) Flower                   (D) Seed</p> <p>11. PIGEON : PEACE : ?<br/>           (A) CROWN : HEAD<br/>           (B) WHITE FLAG : SURRENDER<br/>           (C) LAURELS : VICTORY<br/>           (D) WAR : LIBERTY</p> <p>12. Sculptor : Chisel :: Author : ?<br/>           (A) Table                    (B) Paper<br/>           (C) Book                    (D) Pen</p> <p>13. BOOK : BOOKCASE :: CLOTHES : ?<br/>           (A) RACK<br/>           (B) PRESS<br/>           (C) WARDROBE<br/>           (D) NAPTHALENE BALLS</p> | <p>14. Safe : Secure :: Protect : ?<br/>           (A) guard                    (B) lock<br/>           (C) sure                    (D) conserve</p> <p>15. Physician : Treatment :: Judge : ?<br/>           (A) Punishment             (B) Judgement<br/>           (C) Lawyer                  (D) Court</p> <p>16. SORROW : CRY :: MIRTH : ?<br/>           (A) JOY                     (B) LAUGHTER<br/>           (C) EROWN                  (D) WEEP</p> <p>17. Love : Hate :: Proud : ?<br/>           (A) Sorrowful              (B) Miserable<br/>           (C) Humble                (D) Conceited</p> <p>18. Yesterday : Tomorrow :: March : ?<br/>           (A) April                   (B) May<br/>           (C) January                (D) June</p> <p>19. FOX : CUNNING :: RABBIT : ?<br/>           (A) Courageous            (B) Dangerous<br/>           (C) Timid                   (D) Ferocious</p> <p>20. FLEXIBLE : RIGID :: CONFIDENCE : ?<br/>           (A) DIFFIDENCE            (B) INDIFFERENCE<br/>           (C) COWARDICE            (D) SCARE</p> <p>21. Poet : Poem :: Dramatist : ?<br/>           (A) Dialogue               (B) Stage<br/>           (C) Play                   (D) Direction</p> <p>22. Book : Publisher :: Film : ?<br/>           (A) Writer                   (B) Editor<br/>           (C) Director               (D) Producer</p> <p>23. Surplus : Scarcity :: Simple : ?<br/>           (A) Easy                   (B) Complex<br/>           (C) Tactful               (D) Polite</p> <p>24. Hot : Cold : ?<br/>           (A) Summer : Sun           (B) Germs : Disease<br/>           (C) Light : Dark           (D) Thin : Big</p> <p>25. Love : Hate :: Friend : ?<br/>           (A) Trustful               (B) Companion<br/>           (C) Adorer                (D) Enemy</p> <p>26. Poverty : Unemployment :: Anaemia : ?<br/>           (A) Malnutrition           (B) Illiteracy<br/>           (C) Drought               (D) Death</p> <p>27. Encourage : Restrict : ?<br/>           (A) gain : success        (B) dearth : surplus<br/>           (C) seeing : believing   (D) heart : soul</p> <p>28. Life : Death :: Hope : ?<br/>           (A) Weep                   (B) Pain<br/>           (C) Despair               (D) Sadness</p> |
|--|---|

29. Christian : Muslim :: ? : Quran  
 (A) Geeta (B) Ramayan  
 (C) Angel (D) Bible
30. Large : Enormous :: ?  
 (A) Cat : Tiger (B) Warmth : Frost  
 (C) Plump : Fat (D) Royal : Regale
31. Detective : Informer :: Reporter : ?  
 (A) Source (B) Editorial  
 (C) News (D) Essay
32. Genuine : Authentic :: Mirage : ?  
 (A) Illusion (B) Image  
 (C) Hideout (D) Reflection
33. Thunder : Rain :: ? : Night  
 (A) Day (B) Dusk  
 (C) Dark (D) Evening
34. Dream : Reality :: Falsehood : ?  
 (A) Untruth (B) Truth  
 (C) Fairness (D) Correctness
35. Pound : Yen :: Polo : ?  
 (A) Hockey (B) Horse  
 (C) Ride (D) Stick
36. Camera : Lens :: Flash : ?  
 (A) Bulb (B) Night  
 (C) Light (D) Shutter
37. House : Rent :: Capital : ?  
 (A) Interest (B) Investment  
 (C) Country (D) Money
38. Today : Day before yesterday :: January : ?  
 (A) December (B) February  
 (C) November (D) March
39. Defy : Obey :: Rest : ?  
 (A) Lazy (B) Idle  
 (C) Labour (D) Work
40. Patient : Doctor :: ?  
 (A) Student : Advisor (B) Scissor : Iron  
 (C) Apple : Knife  
 (D) Nurse : Surgeon
41. Man : House :: ?  
 (A) Cat : Mouse (B) Beast : Den  
 (C) Tree : Plant (D) Cage : Rat
42. Oxygen : Burn :: Carbon dioxide : ?  
 (A) Isolate (B) Foam  
 (C) Extinguish (D) Explode
43. Blue whale : Sea :: ? : Land  
 (A) Turtle (B) Fish  
 (B) Elephant (D) Green whale
44. Grenade : Gun :: ?  
 (A) Sister : Brother (B) Father : Mother  
 (C) Man : Woman (D) Head : Brain
45. Secretive : Open :: Snide : ?  
 (A) Outcome (B) Forward  
 (C) Hidden (D) Forthright
46. Book : Library : ?  
 (A) Bouquet : Flower (B) Ship : Fleet  
 (C) Fish : River (D) Aeroplane : Sky

# ANSWERS

- |  |                   |                   |   |
|--|-------------------|-------------------|---|
| 1. (A)   | 2. (C)            | 3. (A)            | 28. (C) Life : Death :: Hope : <b>Despair</b>                     |
| 4. (B)   | 5. (B)            | 6. (C)            | <b>Opposite</b> ↑   |
| 7. (C)   | 8. (C)            | 9. (D)            | <b>Opposite</b> ↑   |
| 10. (B)  | 11. (B)           | 12. (D)           | Holy Book   |
| 13. (C)  | 14. (A)           | 15. (B)           | 29. (D) Christian : Muslim :: <b>Bible</b> : Quran                |
| 16. (B)  | 17. (C)           |                   | Holy Book ↑   |
| 18. (B) Yesterday : Tomorrow :: March : <b>May</b>               |                   |                   | 30. (C) Large : Enormous :: <b>Plump</b> : <b>Fat</b>             |
| +1 ↑                          +1 ↑                               |                   |                   | Synonyms ↑                      Synonyms ↑                        |
| 19. (C)  | 20. (A)           | 21. (C)           | 31. (A)                      32. (A)                      33. (C) |
| 22. (D)  | 23. (B)           | 24. (C)           | 34. (B)                      35. (A)                      36. (D) |
| 25. (D) Love : Hate :: Friend : <b>Enemy</b>                     | <b>Opposite</b> ↑ | <b>Opposite</b> ↑ | 37. (B)                      38. (C)                      39. (D) |
| 26. (A)  |                   |                   | 40. (A)                      41. (B)                      42. (C) |
| 27. (B) Encourage : Restrict : <b>dearth</b> :: <b>surplus</b> . |                   |                   |   |
| Paramount  |                   |                   |   |

## **ANALOGY TEST (TYPE - III)**

**Directions:** In questions given below select the related letters from the given alternatives.

1. AC : CF :: MO : ?  
 (A) OQ (B) PQ  
 (C) QR (D) OR

2. RT : WZ :: PR : ?  
 (A) UX (B) TU  
 (C) RV (D) XU

3. BC : DI :: DE : ?  
 (A) PY (B) FP  
 (C) EI (D) RU

4. AD : NQ :: EH ?  
 (A) RT (B) RU  
 (C) RS (D) RV

5. AN : BO :: CP : ?  
 (A) DQ (B) FS  
 (C) DS (D) FQ

6. LO : PK :: IR : ?  
 (A) GT (B) SH  
 (C) MN (D) FU

7. LKJ : MNO :: DCB : ?  
 (A) FEG (B) EGF  
 (C) FGH (D) EFG

8. NLO : RPS :: VTW : ?  
 (A) XVY (B) VTR  
 (C) TRP (D) VUW

9. RUX : TRP :: BEH : ?  
 (A) SQN (B) QON  
 (C) QOM (D) QNL

10. XZY : WVU :: CAB : ?  
 (A) UVW (B) ABC  
 (C) FED (D) DEF

11. LJH : KKI :: CIA : ?  
 (A) DBB (B) BJB  
 (C) CBZ (D) BBZ

12. BCD : GFE :: HIJ : ?  
 (A) KLM (B) MLK  
 (C) MKL (D) LMK

13. BYW : DWU :: FUS : ?  
 (A) ESQ (B) GST  
 (C) HSQ (D) EST

14. FED : IHG :: ? : WVU  
 (A) XYZ (B) PQR  
 (C) TSR (D) IJK

15. ACF : JLO :: UWZ : ?  
 (A) CEG  
 (C) QRV  
 (B) MOP  
 (D) GIL

16. ACE : KIG :: MOQ : ?  
 (A) WUS  
 (C) WVT  
 (B) WVU  
 (D) WUT

17. AZB : BYC :: MVN : ?  
 (A) NUO  
 (C) NVQ  
 (B) NVO  
 (D) NRQ

18. QTU : ILM :: BEF : ?  
 (A) PSZ  
 (C) WZA  
 (B) CFH  
 (D) UXB

19. AEZ : FPY :: BGX : ?  
 (A) HWW  
 (C) HTX  
 (B) IYY  
 (D) HYW

20.  $\frac{ABC}{F} : \frac{BCD}{I} :: \frac{CDE}{L} : ?$   
 (A)  $\frac{DEF}{O}$   
 (B)  $\frac{DEF}{N}$   
 (C)  $\frac{EDF}{O}$   
 (D)  $\frac{DEF}{M}$

21. AZCY : BYDW :: HQJO : ?  
 (A) GRFP  
 (B) IPKM  
 (C) IPKN  
 (D) GRJP

22. AZBY : CXDW :: HSIR : ?  
 (A) JQKP  
 (B) KPLO  
 (C) YBXC  
 (D) TGSH

23. DMVE : ? :: HQZI : JSBK  
 (A) GOXF  
 (B) FOXG  
 (C) GOXG  
 (D) FNWG

24. AEHN : BGKR :: DFGN : ?  
 (A) EHJR  
 (B) EIJR  
 (C) EHKQ  
 (D) DHKQ

25. NJMP : PLOR :: RTVX : ?  
 (A) VTXZ  
 (B) TVXZ  
 (C) TVZX  
 (D) SVZX

26. EHGI : LONP :: ? : ORQS  
 (A) GJIK  
 (B) HKJL  
 (C) GIHJ  
 (D) HJIK

27. AEHN : BGKR :: DFGN : ?  
 (A) EHJR  
 (B) EIJR  
 (C) EHKQ  
 (D) DHKQ

28. NJMP : PLOR :: RTVX : ?  
 (A) VTXZ  
 (B) TVXZ  
 (C) TVZX  
 (D) SVZX

29. BELL : AFKM :: DOOR : ?  
 (A) CNPQ (B) ENPS  
 (C) EPNS (D) CPNS
30. ABCD : WXYZ :: EFGH : ?  
 (A) STUV (B) ZYXW  
 (C) VUTS (D) WXZY
31. ACEG : IKMO :: QSUW : ?  
 (A) YZCE (B) YACD  
 (C) YBCE (D) YACE
32. CFDB : XUWY :: GJHF : ?  
 (A) SPRT (B) TSQU  
 (C) TQSU (D) S PTR
33. BYDW: FUHS :: AZCX : ?  
 (A) EVGT (B) FVGT  
 (C) EGVT (D) FGVT
34. BIRD : WIRY : RAIN : ?  
 (A) YRIW (B) NIAR  
 (C) MRZI (D) QAIM
35. AZCY : BYDW :: HQJO : ?  
 (A) GRFP (B) IPKM  
 (C) IPKN (D) GRJP
36. QPRS : TUWV :: JIKL : ?  
 (A) NMOP (B) NMPO  
 (C) MNPO (D) MNOP
37. JLNP : OMKI :: SUWY : ?  
 (A) MLKI (B) PLHD  
 (C) XVTR (D) PGHI
38. ITEM : MITE :: ACHE : ?  
 (A) HEAC (B) HECA  
 (C) EACH (D) CEHA
39. LIRG : GIRL : BAML : ?  
 (A) ALMB (B) LAMB  
 (C) MALB (D) LABM
40. AYZB : CWDX :: EUFV : ?  
 (A) GSHT (B) GHST  
 (C) SHGT (D) MVGT
41. BDGH : OQTU :: FHKL : ?  
 (A) JKLM (B) BCDE  
 (C) SUXY (D) WXYZ
42. DCEF : WXVU :: KJLM : ?  
 (A) QPRS (B) STRQ  
 (C) PQON (D) NMKL
43. ACEG : NPRT :: ADGJ : ?  
 (A) NRTX (B) ORVX  
 (C) NQSU (D) NQTW
44. FHEG : JLIK :: PROQ : ?  
 (A) TVSI (B) VTUS  
 (C) TVSU (D) SUVT
45. ACCE : EGGI :: IKKM : ?  
 (A) MOOQ (B) NOOP  
 (C) MPPQ (D) NPPR
46. SRPQ : ONLM :: KJHI : ?  
 (A) GEDF (B) GFED  
 (C) GFDC (D) GFDE
47. SKIP : RIFL :: KYKZ : ?  
 (A) WJHV (B) WJVH  
 (C) JWVH (D) JWHV
48. HKNQ : GDAX :: SVYB : ?  
 (A) TQMK (B) ROLI  
 (C) ZVTQ (D) ADGJ
49. BEHI : JMPQ :: KNQR : ?  
 (A) SUXY (B) RUXY  
 (C) RVXY (D) RUYX
50. BCDZ : CDEV :: DEFT : ?  
 (A) FFGQ (B) EGFR  
 (C) EFGP (D) EFGS
51. DHLP : BDFH :: FLRX : ?  
 (A) CFHL (B) CFIL  
 (C) FILK (D) HLKM
52. IJKL: STUV: : MNOP : ?  
 (A) PQRS (B) RSTU  
 (C) VWXY (D) WXYZ
53. SKIT : TIKS :: ? : FLAP  
 (A) PLFA (B) PFAL  
 (C) PLA F (D) PALF
54. EVFU : TGSH :: IRJQ : ?  
 (A) KWXL (B) PKOL  
 (C) OLPK (D) PKLO
55. CFIL : XURO :: ORUX : ?  
 (A) ROLI (B) RITO  
 (C) LIFC (D) MJFC
56. CFIL : ABCD : : ? : WXYZ  
 (A) ZYXW (B) DCBA  
 (C) JHPS (D) XURO
57. BORE : 10 :: HOTEL : ?  
 (A) 12 (B) 15  
 (C) 18 (D) 30
58. MASTER : OCUVGT :: LABOUR : ?  
 (A) NCDQWT (B) NDERWT  
 (C) NBECRWT (D) NEDRWT
59. UNDATED : ATEDUND :: CORRECT: ?  
 (A) PRECTOC (B) RECTROC  
 (C) ECTRORC (D) RECTCOR

## **ANSWER**

1. (D) A C : C F :: M O : O R

2. (A) R T : W Z :: P R : U X

3. (A) B C : D I :: D E : P Y  

$$\begin{array}{c} \downarrow \\ 2 \\ \boxed{2 \times 2} \\ \uparrow \\ 3 \end{array}$$

$$\begin{array}{c} \downarrow \\ 3 \\ \boxed{3 \times 3} \\ \uparrow \\ 9 \end{array}$$

$$\begin{array}{c} \downarrow \\ 4 \\ \boxed{4 \times 4} \\ \uparrow \\ 16 \end{array}$$

$$\begin{array}{c} \downarrow \\ 5 \\ \boxed{5 \times 5} \\ \uparrow \\ 25 \end{array}$$

4. (B) A D : N Q :: E H : R U

5. (A) A N : B O :: C P : D Q

6. (C) O : P K :: I R : M N

7. (D) L K J : M N O

Similarly,

D C B : E F G

$$\begin{array}{c} \downarrow \\ +1 \\ \boxed{+3} \\ \uparrow \\ +5 \end{array}$$

8. (A) N L O : R P S :: V T W : X Y

9. (C) R U X : T R P :: B E H : Q O M

10. (D) X Z Y : W V U :: C A B : D E F

11. (B) L J H : K K I :: C I A : B J E

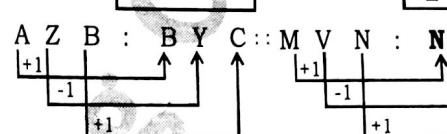
12. (B) B C D : G F E :: H I J : M L K

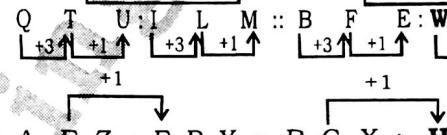
13. (C) B Y W : D W U :: F U S : H S Q

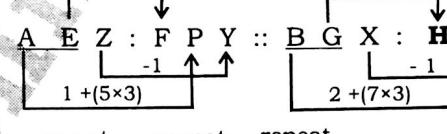
14. (C) F E D : I H G :: T S R : W V U  

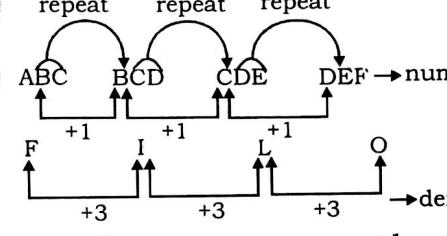

15. (D) A C F J L O U W Z G I L  

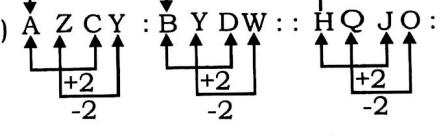

16. (A) A C E K I G M O Q W U S  

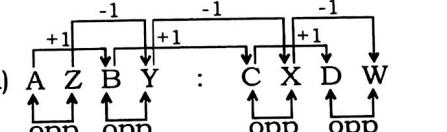
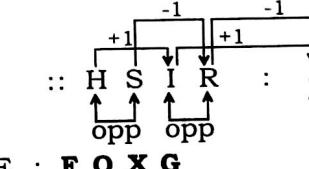

17. (A) A Z B : B Y C :: M V N : N U O  


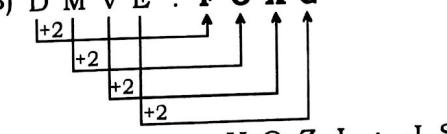
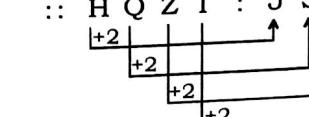
18. (C) Q T U : I L M :: B F E : W Z A  


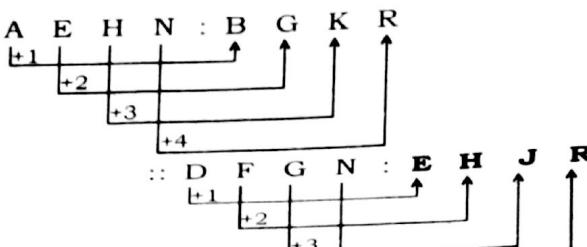
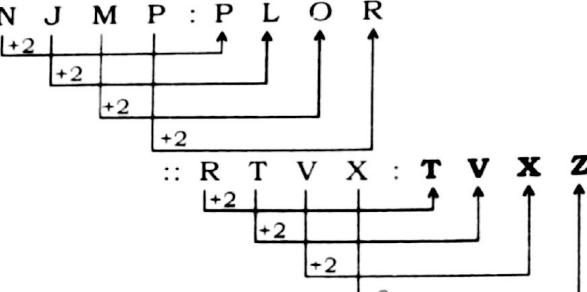
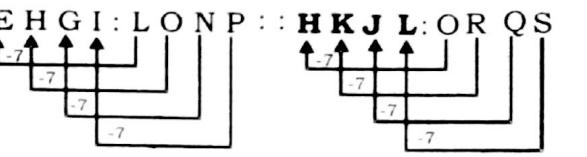
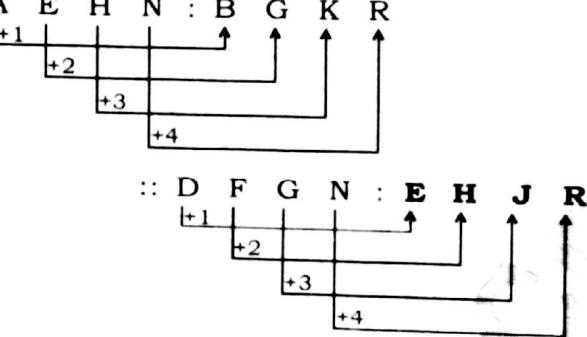
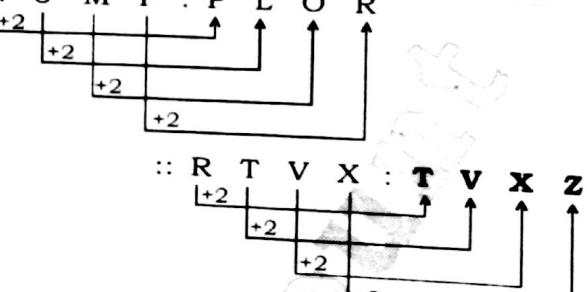
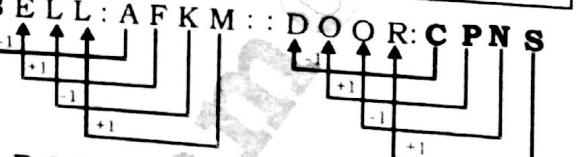
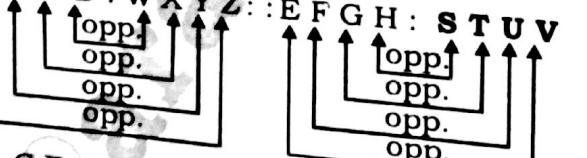
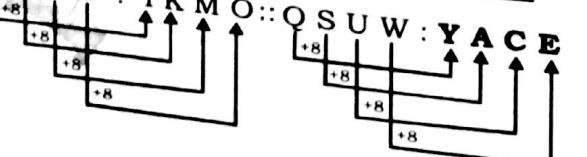
19. (A) A E Z : F P Y :: B G X : H W W  


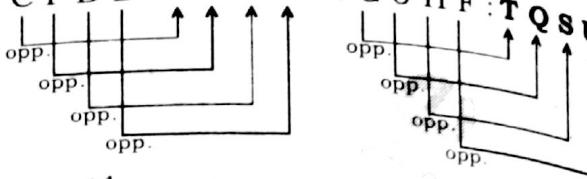
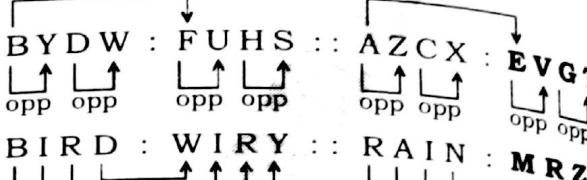
20. (A) repeat repeat repeat  


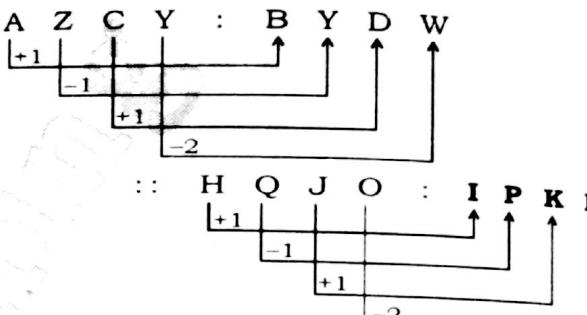
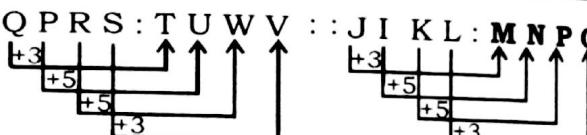
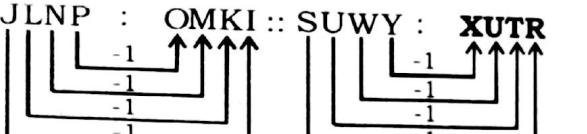
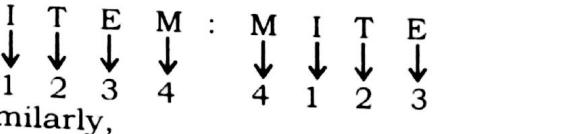
21. (B) A Z C Y : B Y D W :: H Q J O : I P K N  


22. (A) A Z B Y : C X D W  
  


23. (B) D M V E : F O X G  
  


24. (A) A E H N : B G K R  

25. (B) N J M P : P L O R  

26. (B) E H G I : L O N P :: H K J L : OR Q S  

27. (A) A E H N : B G K R  

28. (B) N J M P : P L O R  

29. (D) B E L L : A F K M :: D O O R : C P N S  

30. (A) A B C D : W X Y Z :: E F G H : S T U V  

31. (D) A C E G : I K M O :: O S U W : Y A C E  


32. (C) C F D B : X U W Y :: G J H F : T Q S U  

33. (A) B Y D W : F U H S :: A Z C X : E V G T  

34. (C) B I R D : W I R Y :: R A I N : M R Z I  

35. (B) A Z C Y : B Y D W :: H Q J O : I P K M  

36. (C) Q P R S : T U W V :: J I K L : M N P O  

37. (C) J L N P : O M K I :: S U W Y : X U T R  

38. (C) I T E M : M I T E  

- similarly,
- I T E M : M I T E
- A C H E : E A C H
- 1 2 3 4 : 4 1 2 3
39. (B) L I R G : G I R L :: B A M L : L A M B
- 1 2 3 4 : 4 2 3 1 :: 1 2 3 4 : 4 2 3 1
40. (A) A Y B Z : C W D X :: E U F V : G S H T
- 1 2 2 2 : 2 2 2 2 :: 1 2 2 2 : 2 2 2 2
41. (C) B D G H : O Q T U :: F H K L : S U X Y
- 1 1 1 1 : 1 1 1 1 :: 1 1 1 1 : 1 1 1 1

42. (C) D C E F : W X V U : K J L M : P Q O N
43. (D) A C E G : N P R T :: A D G J : N Q T W
44. (C) F H E G : J L I K :: P R O Q : T V S U
45. (A) A C C E : E G G I :: I K K M : M O O Q
46. (D) S R P Q : Q N L M :: K J H I : G F D E
47. (D) S K I P : R I F L :: K Y K Z : J W H V
48. (B) H K N Q : G D A X :: S V Y B : R O L I
49. (B) B E H I : J M P Q :: K N Q R : R U X Y
50. (C) B C D Z : C D E V :: D E F T : E F G P
51. (B) D H L P : B D F H :: F L R X : C F I L
52. (D) I J K L : S T U V :: M N O P : W X Y Z

53. (D) S K I T : T I K S : P A L F : F L A P
54. (B) E V F U : T G S H : I R J Q : P K O L
55. (C) C F I L : X U R O : O R U X : L I F C
56. (D)
- 
57. (A) B O R E : 10  
 $\downarrow \textcircled{1} \downarrow \textcircled{2} \downarrow \textcircled{3} \downarrow \textcircled{4} \Rightarrow (4 \times 2 + 2) = 10$   
 $\therefore \therefore \text{H O T E L} \therefore \therefore \text{12}$   
 $\downarrow \textcircled{1} \downarrow \textcircled{2} \downarrow \textcircled{3} \downarrow \textcircled{4} \downarrow \textcircled{5} \Rightarrow (5 \times 2 + 2) = 12$
58. (A) M A S T E R : O C U V G T ::
- LABOUR : N C D Q W T
59. (D) UNDATED : ATEDUND
- $\therefore \text{CORRECT : } \underline{\text{RECTCOR}}$

# MIRROR IMAGES

The image of an object as seen in a mirror is known as mirror image.

In mirror image of an object, right side of the object appears at left side and vice-versa.

There are certain objects the mirror images of which are identical to the objects.

The objects given below are such objects, the image of which is identical to the object.

**A, H, I, M, O, T, U, V, W, X, Y, 8, 0**

△, □, ○, XX, ↑, ○, <--->, ⊥

### Mirror images of numbers

<u>Number</u>	<u>Mirror Image</u>
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0

### Mirror images of capital letters

<u>Letters</u>	<u>Mirror Image</u>
A	A
B	B
C	C
D	D
E	E
F	F
G	G
H	H
I	I
J	J
K	K
L	L
M	M
N	N
O	O
P	P
Q	Q
R	R
S	S
T	T
U	U
V	V
W	W
X	X
Y	Y
Z	Z

### Mirror images of small letters

#### Letters

	<u>Mirror Image</u>
a	q
b	d
c	e
d	b
e	e
f	g
g	f
h	h
i	i
j	j
k	k
l	l
m	m
n	n
o	o
p	p
q	q
r	r
s	s
t	t
u	u
v	v
w	w
x	x
y	y
z	z

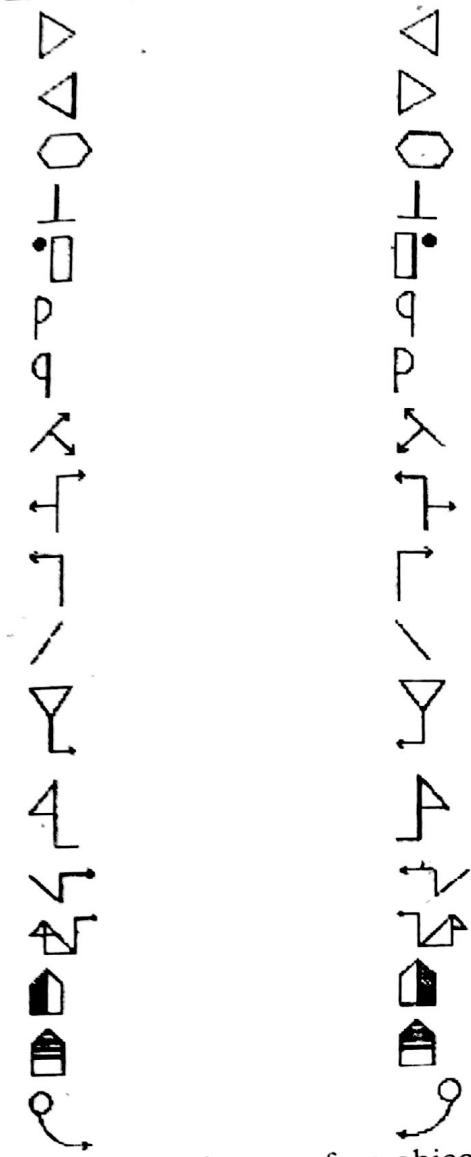
### Mirror images of some symbols

#### Symbol

	<u>Mirror Image</u>
△	△
□	□
□	□
○	○
○	○
↑	↑
→	→
↓	↓
↔	↔
↔	↔
↑	↑
○	○
○	○
↑	↑
↓	↓
↔	↔
↔	↔

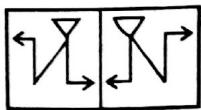
### Symbol

### Mirror Image



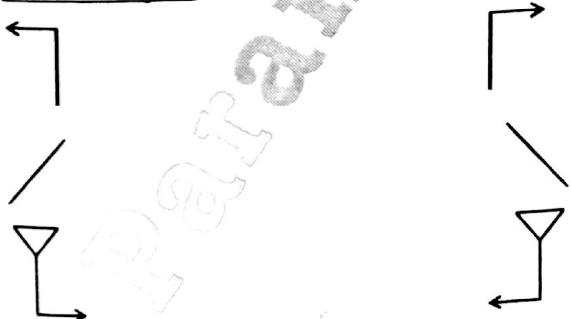
In the mirror image of an object, right side of the object appears at the left side and left side of the object appears at the right side. This is called **lateral inversion**.

### Some examples



Part of object

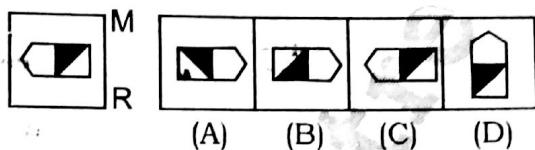
### Mirror Image



### **Example : 1**

#### **Problem Figure**

#### **Answer Figures**



(A) (B) (C) (D)

**Answer with explanation:** In the problem figure two diagrams are joint to make one diagram.

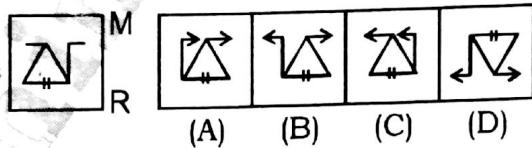
The mirror image of will be as and the mirror image of will be as . The right of the figure will be at left and vice versa.

So answer is (A)

### **Example : 2**

#### **Problem figure**

#### **Answer figures**



(A) (B) (C) (D)

**Answer with explanation:** The problem figure is divided into three parts. The combined mirror image of these three parts will be as answer figure (B).

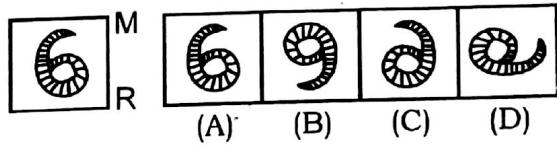
The mirror image of will be as , the mirror image of will be as and the mirror image of will be as .

So answer is (B)

### **Example : 3**

#### **Problem figure**

#### **Answer figures**



(A) (B) (C) (D)

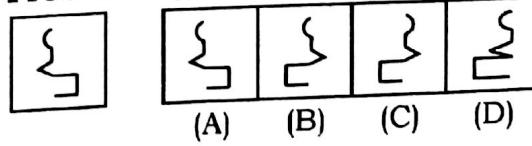
**Answer with explanation:** The image of the digit 6 in the problem figure will be the design as in answer figure (C).



### **Example : 4**

#### **Problem figure**

#### **Answer figures**



(A) (B) (C) (D)