

AIIMS MBBS 2017

Aptitude and Logical Thinking section

1

Analogy



Directions: In each of the following Questions, there is a certain relationship between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the words of the given pair bear : choose the correct alternatives.

1. **Amnesia : Memory :: Paralysis : ?**
2. **Meningitis : Brain :: Cirrhosis : ?**
3. **Foresight : Anticipation :: Insomnia : ?**



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Directions: The following questions consist of two words each that have a certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as the original pair of words.

4. **Cattel : Drove**
a. Soldier : Crew
c. Chicken : Brood
b. Grain : Bundle
d. Bees : Heap
5. **Druggist : Pharmacy**
a. Physician : Patient
c. Librarian : Catalogue
b. Carpenter : Wood
d. Chef : Restaurant
6. **Fish : Mermaid**
a. Cat : Lion
c. Unicorn : Tapestry
b. Horse : Centaur
d. Pegasus : Fly

Directions: In each of the following Questions, there is a certain relationship between two given numbers on one side of :: and one number is given on another side of :: and one number is given on another side of :: while another number is to be found from the given alternatives, having the same relationship with this number as the numbers of the given pair bear : choose the best alternative

7. **14 : 9 :: 26 : ?**
a. 12
b. 13
c. 15
d. 31
8. **6 : 18 :: 4 : ?**
a. 2
b. 6
c. 9
d. 8
9. **9 : 80 :: 100 : ?**
a. 901
b. 1009
c. 9889
d. 9999

2

Series



Directions: Find the missing term in each of the following series.

1. 4, 7, 5, 9, ... 11, 7, 13

- | | |
|------|------|
| a. 6 | b. 8 |
| c. 9 | d. 3 |

2. 11, 13, 17, 19, ... 29, 31

- | | |
|-------|-------|
| a. 25 | b. 26 |
| c. 27 | d. 23 |

3. $\frac{1}{24}, \frac{1}{12}, \frac{1}{4}, 1, 5, \dots$

- | | |
|-------|-------|
| a. 30 | b. 35 |
| c. 40 | d. 45 |

4. 4, 16, 64, 256, ... 4096

- | | |
|---------|---------|
| a. 512 | b. 2048 |
| c. 4096 | d. 1024 |

5. 27, 23, 21, 17, 15, ...

- | | |
|-------|-------|
| a. 8 | b. 9 |
| c. 10 | d. 11 |

6. In the following number sequence, how many such even numbers are there which are exactly divisible by its immediate preceding number but not exactly divisible by its immediate following number?

3 8 4 1 5 7 2 8 3 4 8 9 3 9 4 2 1 5 8 2

- | | |
|---------|-------------------|
| a. Two | b. Three |
| c. Four | d. More than four |

LETTER SERIES

Directions: Find the missing term(s), in each of the following series.

7. F, H, L, R, T, X

- | | |
|------|------|
| a. M | b. O |
| c. R | d. N |

8. JEV, KIW, LOX, MUY, OEA

- a. MBY
c. NAZ

- b. OAC
d. None of these

9. $\frac{Q U J P}{M O B ?}$

- a. F
c. G

- b. H
d. D

3

Coding- Decoding



- In a certain code LAWN is written as JCUP. How will SLIT be coded in that code?
 - QNGV
 - QJGV
 - QNVG
 - NJGV
- In a certain code PRAISE is written as #@S27% and RESPIRE is written as @%7#2@%. How is REPAIR written in that code?
 - @%#2\$@
 - @%\$#2@
 - @%#S2@
 - @%S2#@
- In a certain code LONG is written as 5123 and GEAR is written as 3748. How is LANE written in that code?
 - 5427
 - 5247
 - 5847
 - 5237
- In a certain code READ is written as #5%6 and PAID is written as \$%46. How is RIPE written in that code?
 - #4\$5
 - #6\$5
 - \$4#5
 - \$4#6
- In a certain code GEAR is written as '5934' and RIPE is written as '4869'. How is PAGE written in that code?
 - 6359
 - 6539
 - 4359
 - 6459

Directions: These questions involves letter coding, number coding and mixed letter coding. Each letter in a word is replaced by certain other alphabet/number according to a specific rule. Candidates are expected to find out.

6. SHAYAM → 75391

RADHA → 53463

DHARAM → ?

a. 463531

b. 436537

c. 453657

d. 473612

7. BANDRA → 40 :: DUMDUN → ?

a. 78

b. 40

c. 46

d. 60

4

Blood Relation



- Pointing to a woman, Naman said, “She is the daughter of the only child of my grandmother.” How is the woman related to Naman?
 - Niece
 - Sister
 - Aunt
 - Sister-in-law
- A man said to a lady, “Your mother’s husband’s sister is my aunt.” How is the lady related to the man?
 - Daughter
 - Grand daughter
 - Mother
 - Sister
- Pointing out to a lady, a girl said, “She is the daughter-in-law of the grandmother of my father’s only son.” How is the lady related to the girl?
 - Sister-in-law
 - Mother
 - Aunt
 - Mother-in-law

Directions: Study the following information and answer the questions given below it:
All the six members of a family A, B, C, D, E and F are travelling together. B is the son of C but C is not the mother of B, A and C are a married couple. E is the brother of C. D is the daughter of A. F is the brother of B.

- Which of the following pairs is the parents of the couple?
 - A B
 - B C
 - A F
 - C F
- A, B, C, D, E, F and G are members of a family consisting of 4 adults and 3 children, two of whom, F and G are girls, A and D are brothers and A is a doctor. E is an engineer married to one of the brothers and has two children. B is married to D and G is their child who is C?
 - G’s father
 - F’s father
 - E’s daughter
 - A’s son

6. A family consists of a husband and wife, their three sons and two daughters, three wives of three sons. How many females are in this family?
- a. 5
b. 6
c. 7
d. None of these

5

Direction Sense Test



1. A man walks 1 km towards East and then he turns to South and walks 5 km. Again he turns to East and walks 2 km, after this he turns to North and walks 9 km. Now, how far is he from his starting point?
- a. 3 km
b. 4 km
c. 5 km
d. 7 km
2. Raj travelled from a point X straight to Y at a distance of 80 metres. He turned right and walked 50 metres, then again turned right and walked 70 metres. Finally, he turned right and walked 50 metres. How far is he from the starting point?
- a. 10 metres
b. 20 metres
c. 50 metres
d. 70 metres
3. The door of Aditya's house faces the East. From the back side of his house, he walks straight 50 metres, then turns to the right and walks 50 metres again. Finally, he turns towards left and stops after walking 25 metres. Now, Aditya is in which direction from the starting point?
- a. South-east
b. North-east
c. South-west
d. North-west

Directions: Read the following information carefully and answer the questions given below it:

- (i) Six flats on a floor in two rows facing North and South are allotted to P, Q, R, S, T and U.
- (ii) Q gets a North facing flat and is not next to S.
- (iii) S and U get diagonally opposite flats.
- (iv) R next to U, gets a south facing flat and T gets a north facing that?
4. A man is performing yoga with his head down and legs up. His face is towards the west. In which direction will his left hand be?
- a. North
b. South
c. East
d. West

5. Arun's office is situated at 5 km South from Bharat's office. Bharat starts from his office and walks 2 km towards Arun's office. He then turns left and walks 3 km and then turns right and walks 3 km. In which direction will he turn to reach Arun's office?
- a. East
b. West
c. North
d. South
6. Shyam began to walk towards South. After walking 20 m, he turned to his right and further walked 30 m. Then he turned to his left and walked 10 m. Again he turned to his left and walked 30 m. How far is he now from his starting point?
- a. 25 m
b. 30 m
c. 35 m
d. 40 m

6

Sitting Arrangements



Directions: Read the information given below and then answer the questions that follow

Eight friends A, B, C, D, E, F, G and G are sitting in a circle facing the centre. B is sitting between G and D. H is third to the left of B and second to the right of A. C is sitting between A and G and B and E are not sitting opposite to each other.

7. Who is third to the left of D?
- a. F
b. E
c. A
d. None of these
8. Which of the following statements is not correct?
- a. D and A are sitting opposite to each other
b. C is third to the right of D
c. E is sitting between F and D
d. A is sitting between C and F

Directions: Study the following information to answer the given questions

- (i) Eight friends A, B, C, D, E, F, G and G are seated in a circle facing the centre.
(ii) D is between B and G and F is between A and H.
(iii) E is second to the right of A.

9. Which of the following is A's position?
- a. Left of F
b. Right of F
c. Between E and F
d. None of these

10. Which of the following is C's position?

- a. Between E and F
b. Between G and E
c. Second to the left of B
d. None of these

Directions: Read information carefully and then answer the following

Six persons are sitting in a circle. A is facing B. B is to the right of E and left of C. C is to the left of D. F is to the right of A. Now, D exchanges his seat with F and E with B.

11. Who will be sitting to the left of D?

- a. B
b. D
c. E
d. A

12. Who will be sitting to the left of C?

- a. E
b. F
c. A
d. B

13. Who will be sitting opposite of A?

- a. E
b. F
c. D
d. B

7

Inserting the Missing Character



Directions: In each of the following questions, a set of figures carrying certain characters, is given. Assuming that the characters in each set follow a similar pattern, find the missing character in each case.

1.

28	20	7
84	35	12
4	?	9

- a. 15
b. 18
c. 20
d. 25

2.

6	15	20
8	4	5
3	5	20
51	65	?

- a. 12
b. 51
c. 56
d. 120

8

Number, Ranking and Time Sequence Test



1. What will be the difference between the sum of the odd digits and the sum of the even digits in the number 857423?

a. 0
b. 1
c. 2
d. None of these
2. How many such digits are there in the number 831729564, each of which is as far away from the beginning of the number as when the digits are arranged in descending order?

a. None
b. One
c. Two
d. Three
3. How many such pairs of digits are there in the number 95137248 each of which has as many digits between them in the number as when they are arranged in ascending order?

a. None
b. One
c. Two
d. Three
4. Rohit is seventeenth from the left end of a row of 29 boys and karan is seventeenth from the right end in the same row. How many boys are there between them in the row?

a. 3
b. 5
c. 6
d. Data inadequate
5. Forty boys are standing in a row facing the North. Amit is eleventh from the left and Deepak is thirty-first from the right end of the row. How far will shreya, who is third to the right of Amit in the row, be from Deepak?

a. 2nd
b. 3rd
c. 4th
d. 5th
6. In a queue, A is eighteenth from the front while B is sixteenth from the back. If C is twenty fifth from the front and is exactly in the middle of A and B, then how many persons are there in the queue?

a. 45
b. 46
c. 47
d. 48

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