Ace REASONING

A Complete Guide on Reasoning Ability for Banking & Insurance Examinations

Useful for SBI, IBPS, RBI, NABARD and Other Exams

SECOND EDITION 2018

THIS EDITION INCLUDES

- 3 Level of Exercises
- 1800+ Questions with 100% Solutions
- Based on Latest pattern asked in SBI, IBPS, RBI exams 2017
- Includes the Previous Year Questions asked in Banking & Insurance exams

CONTENT

1. Alpha Numeric

Directions (1-5): Study the following information and answer the questions given below:

There are four triangles given in question on which some operations are applied individually on each triangle and then it is converted into solution. You have to answer the questions from the triangle which comes after the operation applied on the given triangle.

[IBPS CLERK MAINS 2017]

For example-
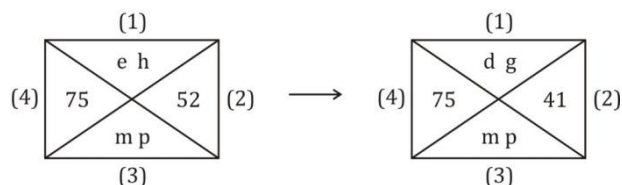
For triangle 1- if the difference between the place value of the letters in triangle 1 is less than four then change each letter to previous letter according to English alphabetical series

For triangle 2- if the difference between given two digit is less than 5 then change the each digit to previous digit.

For triangle 3- if the total letters between given two letters is more than 5 then change the each letter to previous letter according to English alphabetical series.

For triangle 4- if the difference between given two digits is more than 2 then change each digits to previous digit.

Note- If the above condition are not applied then you have to write the digit and letter as it is in resultant triangle.

Based on the above example solve the given question.
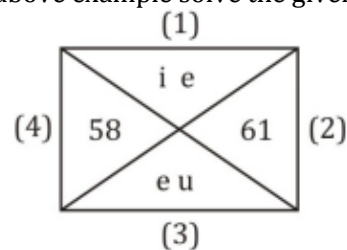
1. How many meaningful words are formed by letter combining from triangle 1 and triangle 3?
   (a) None   (b) Two   (c) Three
   (d) One   (e) Four
2. What is the sum of each digits which is obtained in triangle 2 and triangle 4?
   (a) 17   (b) 18   (c) 19
   (d) 20   (e) 16
3. Which of the following letter is obtained in triangle 3?
   (a) d,f   (b)t,c   (c) d,t
   (d) d,v   (e) t,b
4. What is the product of 2nd digit of triangle4 and 1st digit of the triangle2?
   (a) 45   (b)56   (c) 48
   (d) 42   (e) none of these
5. What is the sum of the numerical value of the 1st letter in triangle1 and 2nd letter of tringle 3?
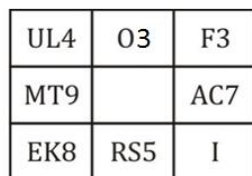   (a) 30   (b) 31   (c) 28
   (d) 26   (e) none of these

2. Input Output

Directions (1-5): Study the following diagram and convert it into other diagrams by implementing the instructions which is given in each step to get next step.

[SBI PO MAINS 2017]
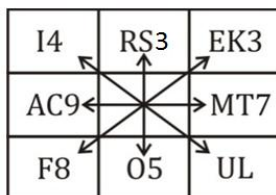
Interchange the Alphabets to get step 1 as arrows mention in the above figure.

UL4	O3	F3
MT9		AC7
EK8	RS5	I

Step-1

For Step-2:
(i) If the alphabets in a particular cell contain one consonant and one vowel and the number with them is greater than 3, then subtract 3 from the given number.
(ii) If the alphabets are two consonant and the number with them is greater than 5, then change the letters with the previous letter in alphabetical series.

UL1	O3	F3
LS9		AC4
EK5	RS5	I
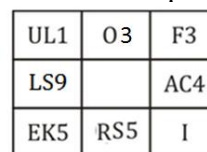
Step-2

For Step-3 : step 3 is coded in some special pattern.

EK5	R3	I
UL1		F3
LS9	YZ5	AC4
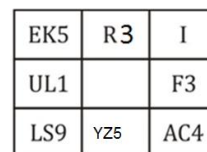
Step-3

As per the rules followed in the above step, find out the appropriate steps for the given input.
And answer the following questions.

A5	LM3	FT2
ZU8		BC6
G5	S7	MO

1. Which element comes in step-2 in the second column of third row?
   (a) LM7   (b) KL7   (c) ZU3
   (d) AB8   (e) None of these
2. Which element replaces AB8 from step-2 to step-3?

(a) PQ7   (b) ZU3   (c) FT5
(d) MO2   (e) None of these
3. Which element replaces BC6 from input to step-2?
   (a) BC8   (b) ZU8   (c) FT5
   (d) ZU3   (e) None of these
4. Which element comes in step-3 in the third column of second row?
   (a) G2   (b) A   (c) FT5
   (d) RS7   (e) None of these
5. What is the total sum of the digits of the first column first row and the digits of first column third row in step 3?
   (a) 11   (b) 12   (c) 13
   (d) 14   (e) None of these

3. Seating Arrangement

Direction (1-5): Study the following information carefully to answer the given questions.

Eight people viz. P, Q, R, S, T, U, V, W are sitting around a circular table in such a way that no two successive people are sitting together in an alphabetical order (for ex- P can't sit with Q, Q can't sit with R etc.). They all work in NASA and all of them are doing research in current year 2017 on different bodies of Solar System viz. Asteroids, Comets, Dwarf Planets, Jupiter, Meteors, Pluto, Uranus, and Venus. All of them have a target year viz. 2019, 2021, 2022, 2023, 2024, 2025, 2027and 2030 to complete the research work on concerned planet.

*Note- Some of them are facing towards while some are facing outside the centre. Not more than two people sitting together are facing same direction.

P is sitting third to the left of the one, who is doing research on Comets. W has a target year which is three years after U and more than ten years from the current year. The one who is doing research on Meteors has a target year which is two year after the current year. R is sitting opposite to the one who is doing research on Dwarf Planets and both of them are facing opposite direction to each other. Only one person sits between P and R. Q is doing research on Comets. The difference between the target year of the one who is doing research on Pluto and dwarf planet is same as the difference between Q and the one who is doing research work on Meteors. W is an immediate neighbour of R and sits fourth to the right of the one who is doing research on Pluto. Q is not facing towards the center. U sits second to the left of the one who is doing research on Pluto. No person has a target year before T. S has a target year two

years prior to U. S sits third to the right of the one, who has a target year 2024. The one who is doing research on asteroids sits third to the left of the one who is doing research on Uranus. P is not doing research on Uranus and its target year is an even number. The one, who is doing research on Venus is facing same direction to that of V, whose target year is after P. T is facing opposite direction of the both of the one who is doing research on Jupiter and the one who is doing research on asteroids.

1. Who is doing research on Jupiter?
   (a) R   (b) P   (c) W
   (d) S   (e) None of the above
2. What is the target year of the one who is doing research on Comets?
   (a) 2023   (b) 2025   (c) 2019
   (d) 2024   (e) None of the above
3. Which of the following combination is true regarding V?
   (a) 2023-Dwarf Planet   (b) 2025-Venus
   (c) 2019-Meteors   (d) 2024-Comets
   (e) None of the above
4. Who sits third to the left of T?
   (a) The one whose target year is 2022
   (b) The one who is doing research work on Venus
   (c) The one whose target year is 2030
   (d) The one who is doing research work on Asteroids
   (e) None of the above
5. How many persons are facing inside the center?
   (a) Three   (b) Four   (c) Two
   (d) Five   (e) None of the above

4. Direction Based Puzzle

Direction (1-5): In the following questions, the symbols &, %, @ and $ are used with the following meanings as illustrated below. Study the following information and answer the given questions:

Note: The directions which are given indicated exact directions.

A$B - B is in the west direction of A at distance of 3m.

A%B - B is in the east direction of A at distance of 2m

A@B - B is in the north direction of A at distance of 6m

A&B - B is in the south direction of A at distance of 4m.

A&$B- B is in the southwest direction of A.

A@%B- B is in the northeast direction of A.

1. If P%Q&R$S is true, then find the shortest distance between P and S?
   (a) $\sqrt{13}$m   (b)$\sqrt{19}$ m   (c)$\sqrt{17}$ m
   (d)$3\sqrt{5}m$ (e)None of these

2. If K@%J@L$M&N is true, K is in line with M and N is the midpoint of MK and if we draw a perpendicular from J then it bisects the line NK, then what is shortest distance of KJ?

3. If E%F&$G@H$J is true, EGH are in line and E is the midpoint of GH, What is the shortest distance between point J and F and also find the direction of F with respect to J?
   (a)$\sqrt{23}$m, south-west   (b)$\sqrt{37}$m, north-east
   (c)$\sqrt{34}$m, south-east   (d)$\sqrt{41}$m, south-west
   (e) None of these

   (a) $\sqrt{13}$m   (b)$\sqrt{3}$ m   (c) $3\sqrt{2}$m
   (d)$\sqrt{11}m$ (e)None of these

4. If D$S@T&O%V is true, then what is the shortest distance between point V and D?
   (a) $\sqrt{3}$m   (b)$\sqrt{5}$ m   (c) $\sqrt{2}$m
   (d)$\sqrt{7}$m   (e)None of these

5. If C&X$Y@Z is true, then find the direction of Z with respect of C?
   (a) south-west   (b) north-east   (c) south-east
   (d) north-west   (e)None of these

5. Figure Based Puzzle

Directions (1-5): Study the following information and answer the questions that follow.

Six persons of the same team viz. A, B, C, D, E and F are standing in a particular formation as shown below.
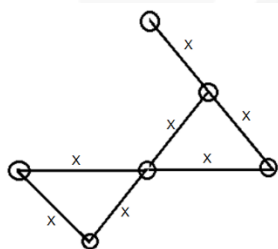
O denotes persons

*Note- All the given distances are considered as the shortest distance.

Each person is at a distance of X meters from his nearest teammate.

The distance between a person and his nearest team mate is same for all the persons. Distance between D and E is more than the distance between D and C. D, F and C are in line. Distance between E and A is more than the distance between E and D. A, C and E are not in line. Distance between A and C is not equal to the distance between D and E. A, B and D are in-line. Distance between A and C is less than the distance between B and C. Distance between C and E is greater than the distance between A and E. E has only one nearest team mate.

1. If the distance between a person and his nearest team mate is 5 meters, then what will be the distance between E and D?
   (a) 5 meters   (b) 10 meters   (c) $5\sqrt{3}meters$
   (d) Cannot be determined   (e) None of these

2. Distance between F and C is equal to the distance between ___?
   (a) B and A   (b) A and C
   (c) D and E   (d) Both (a) and (b)
   (e) None of these

3. Who among the following is standing nearest to F?
   (a) A   (b) E   (c) C
   (d) No one   (e) Cannot be determined

4. Which of the following group of persons are standing farthest from each other?
   (a) A and B   (b) A and F   (c) D and E
   (d) B and C   (e) C and E

5. How many persons are standing to the right of A?
   (a) Two   (b) One
   (c) No one   (d) Cannot be determined
   (e) None of these