

SBI PO Prelims Previous Year Question Paper 2017

Reasoning Ability (Questions & Solutions)

Directions Q. (1 - 2): Study the following information carefully and answer the questions given below:
Rahul starts running from point A and runs 15 km towards south. He takes a left turn and runs 20 km. Now he runs 9 km after taking a right turn. He finally takes a right turn and runs 20 km and stops at point B.

Q. (1) How far is point B with respect to point A?

1. 24 km
2. 40 km
3. 45 km
4. 29 km
5. 49 km

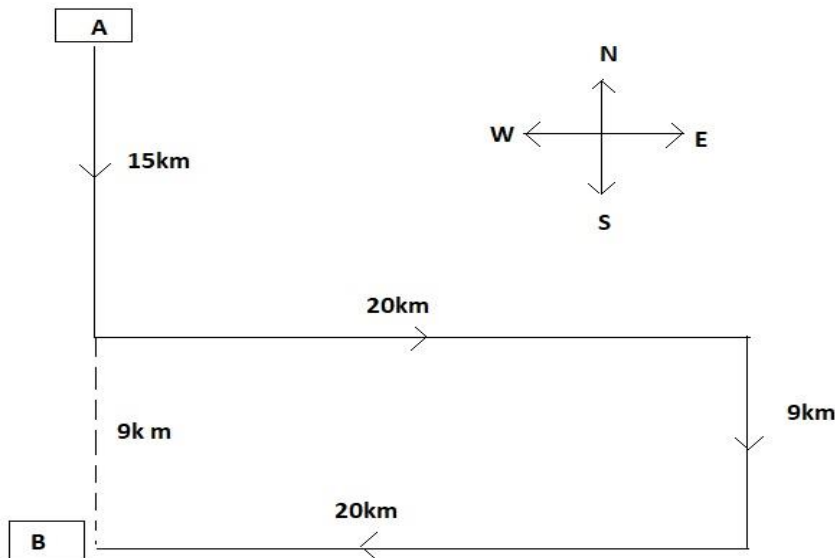
Answer: 1

Q. (2) Towards which directions was Rahul moving before he stopped at point B?

1. North
2. East
3. West
4. South
5. North-West

Answer: 3

Solution Q. (1 - 2):



Directions Q. (3 - 4): Study the following information carefully and answer the questions given below:

- D is the mother of E, who is the sister of F.
- A is the father of C. B is the wife of A.
- F is the son of C.

Q. (3) How is E related to A?

1. Son
2. Grandson
3. Granddaughter
4. Daughter
5. None of these

Answer: 3

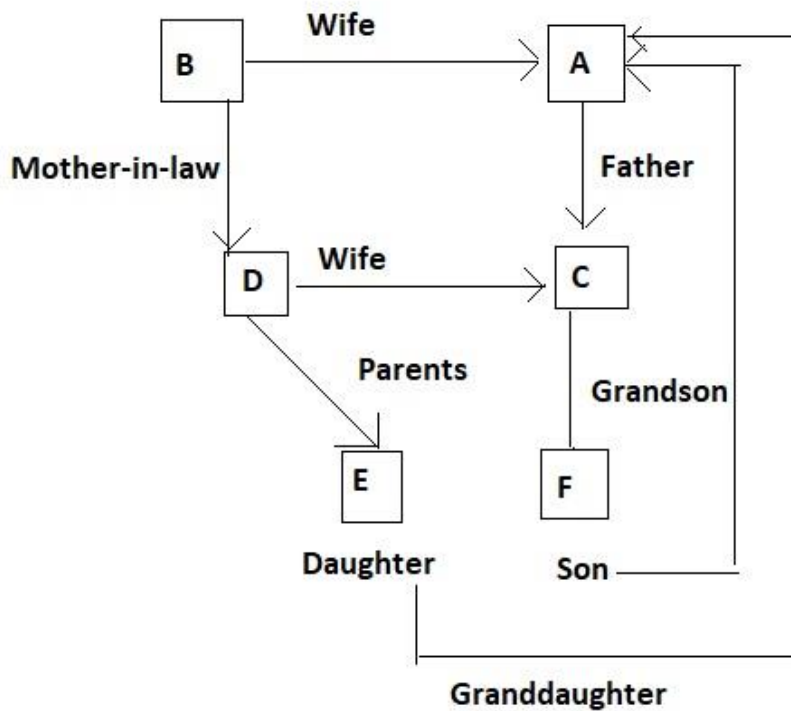
Q. (4) How is B related to D?

1. Mother-in-law
2. Sister
3. Mother
4. Can't be determined

5. None of these

Answer: 1

Solution Q. (3 - 4):



Directions Q. (5 - 7): Study the following information carefully and answer the questions given below:

Each of the six students got different marks in an exam. D got less marks than only B. E got more marks than only two students. A didn't get less marks than E. C did not get least marks. The one who got second-lowest got 160 marks. A got 205 marks.

Q. (5) The one who got maximum marks, got 100 marks more than C. Which of the following mark is got by one who got maximum marks?

1. 225
2. 270
3. 260
4. 300
5. None of these

Answer: 3

Solution: $B > D > A > E > C > F$

Here A got 205 marks and he scores more marks than E.

E score more marks than C & F.

C score 160 marks than F.

F score minimum marks.

The one who got maximum marks got 100 marks more than C, hence maximum marks will be $160 + 100 = 260$

Q. (6) Which of the following is true with respect to F as per the given information?

1. The possible marks got by F is 165
2. F got minimum marks.
3. Only two students got more marks than F
4. F definitely got more marks than C
5. None of these

Answer: 2

Solution: The arrangement is as follows:

$B > D > A > E > C > F$

Here A got 205 marks and he scores more marks than E.

E score more marks than C & F.

C score 160 marks than F.

F score minimum marks.

Q. (7) Which of the following may be the possible number of marks which E got?

1. 210
2. 140
3. 185
4. 159
5. None of these

Answer: 3

Solution: The arrangement is as follows:

B > D > A > E > C > F

Here A got 205 marks and he scores more marks than E.

E score more marks than C & F.

C score 160 marks than the possible number of marks which E got will be 185.

Directions Q. (8 - 12): Study the following information carefully and answer the question given below:

There are eight persons A, B, C, D, E, F, G and H. They are born in the month (Same for each person) of different years i.e. 1976, 1980, 1982, 1990, 1991, 1995, 2000 and 2005. Their ages are considered as on the same month of 2017. B is born in an odd number year but he is not the youngest. E is 37 years old now. C was born in 1990. G is at least 9 years older than B. D is younger than B and born in odd number year. A is 18 years younger than G. F is older than D but not the older person. Not more than 2 persons are younger than F.

Q. (8) Who among the following is the youngest person?

1. A
2. C
3. D
4. B
5. G

Answer: 3 (D is the youngest)

Q. (9) How many persons are older than C?

1. 2
2. 3
3. 1
4. None
5. more than 3

Answer: 2 (G, E and H are older than C)

Q. (10) What is the difference in age between F and E?

1. 15 years
2. 10 years
3. 30 years
4. 4 years
5. 12 years

Answer: 1 (The difference in age between F and E is 15 years)

Q. (11) If all the persons are arranged according to their names according to alphabet series from youngest to oldest then how many of them position will remain unchanged?

1. 0
2. 1
3. 2
4. 3
5. 4

Answer: 2 (The position of G will remain unchanged)

Q. (12) Who among the following is born in 1982?

1. D
2. G
3. A
4. C
5. H

Answer: 2 (G is born in 1982)

Solution Q. (8 - 12):

Years	Age	Person
2005	12	D
2000	17	A
1995	22	F
1991	26	B
1990	27	C
1982	35	G
1980	37	E
1976	41	H

Directions Q. (13 - 18): Study the following information carefully and answer the questions given below:

Seven persons A, B, C, D, E, F and G attends a seminar on different dates starting from 21st June to 27th June but not necessarily in the same order. They like different brands laptop, Lenovo, Dell, Apple, Sony, Samsung, Asus, and HP. They have different brands of watch, Sonata, Rolex, Titan, Maxima, Casio, Fossil and Diesel. The one who has Diesel attends a seminar on an even-numbered date. E has Rolex and F doesn't have Maxima. G attends the seminar on the last day. The one who has Diesel likes either Apple or Asus laptop. A has Titan but he doesn't like HP and is not attend the seminar just before or just after B. F likes Dell and attends the seminar three days before the one who likes Samsung. D neither likes Samsung nor Asus laptop. The one who likes HP attends the seminar on 25th June. B likes Sony wearing also have Sonata watch and not attends the seminar just before or just after F, who attends the seminar on an odd-numbered date. The one who likes Apple neither has Casio nor Maxima. B attends the seminar just before D and none of them likes HP. The one who has Casio attends the seminar on the 2nd day.

Q. (13) Who among the following attends the seminar on 3rd day?

1. D
2. The one who likes Dell
3. C
4. The one who has Diesel
5. The one who likes Samsung

Answer: 2 (The one who likes Dell)

Q. (14) Which of the following is the correct combination for D?

1. Lenovo - Casio
2. Dell - Sonata
3. Samsung - Rolex
4. Sony - Fossil
5. HP - Rolex

Answer: 1 (Lenovo - Casio)

Q. (15) How many persons attend the seminar between the one who likes Samsung and the one who has Fossil?

1. 0
2. 1
3. 2
4. 3
5. 4

Answer: 3 (C and E attend the seminar between the one who likes Samsung and the one who has Fossil)

Q. (16) If all the persons rearranged according to their names (alphabetically) from the starting date then who among the following likes Apple?

1. A
2. B
3. C

4. D
5. E

Answer: 4

Q. (17) Which of the following combination is correct?

1. D - Lenovo - Fossil
2. E - HP - Titan
3. A - Sony - Maxima
4. F - Dell - Diesel
5. A - Samsung - Titan

Answer: 5

Q. (18) 'B' is related to 'Dell' and 'F' is related to 'Rolex' in the same way then who among the following is related to 'Maxima'?

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

Answer: 5

Solution Q. (13 - 18):

Seminar Dates	Person	Laptop	Watch
21st June	B	Sony	Sonata
22nd June	D	Lenovo	Casio
23rd June	F	Dell	Fossil
24th June	C	Apple	Diesel
25th June	E	HP	Rolex
26th June	A	Samsung	Titan
27th June	G	Asus	Maxima

Directions Q. (19 - 23): Study the following information carefully and answer the questions given below: Eight people P, Q, R, S, T, U, V and W are sitting in a straight line and facing north direction. Their ages are 12, 14, 18, 26, 29, 35, 42 and 67. The one who is 12 years old is 4th to the left of the eldest person, who is sitting at the end. The sum of the ages of S and Q is equal to P. S is not the youngest person. S and W are neighbours of Q. R's age is not an even number and he is older than W and younger than U. Only 3 persons are sitting between S and U. Only 2 persons are sitting between Q and T, who is 29 years old. P is not the neighbour of U. R is not sitting to the left of Q.

Q. (19) Who among the following sits at the end?

1. T
2. P
3. Q
4. S
5. W

Answer: 1 (T sits at the end)

Q. (20) Who among the following sits third to the left of W?

1. S
2. The one who is 12 years old
3. The one who is 26 years old
4. T
5. U

Answer: 3 (The one who is 26 years old)

Q. (21) Which of the following pair is the neighbour of U?

1. R and W
2. S and P
3. W and V
4. R and V
5. Q and R

Answer: 4 (R and V is the neighbour of U)

Q. (22) Who among the following is 14 years old?

1. P
2. Q
3. R
4. U
5. S

Answer: 5 (S is 14 years old)

Q. (23) How many persons are younger than W?

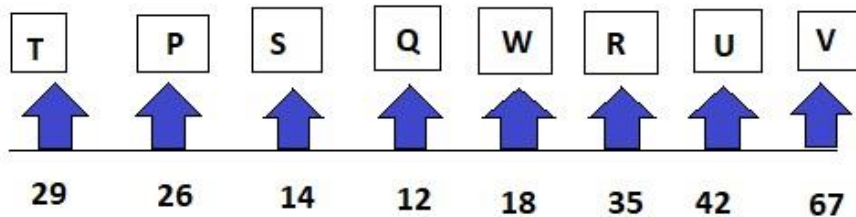
1. 1
2. 2
3. 3
4. 4

5. None

Answer: 2 (S and Q are younger than W)

Solution Q. (19 - 23):

According to the given situation, we get the following arrangement:



Directions Q. (24 - 28): Study the following information carefully and answer the question based on it. 8 persons A, B, C, D, E, F, G and H have their birthdays on 14th and 21st of four different months, January, March, April and June not necessarily in the same order. A has birthday on even date and a month which has 31 days. The number of persons between C and F is the same as the number of persons between B and H. H's birthday is neither on even number date nor in a month which has 31 days. B is not born after H. C is born before F and B, who is not born in January. D is not born in June. F was born on even number date. D's birthday is on odd number date and a month which has 31 days. B and H were not born in the same month. E was born after F. D is born before G.

Q. (24) How many persons born after F?

- 1
- 2
- 3
- 4
- 5

Answer: 3 (B, E and H were born after F)

Q. (25) Who among the following is not born in the month having 30 days?

1. F
2. D
3. B
4. H
5. E

Answer: 2 (D is not born in the month having 30 days)

Q. (26) Who among the following does not belong to the group?

1. A
2. D
3. G
4. B
5. H

Answer: 1 (All except A are born on 21st of different months)

Q. (27) How many persons have birthday between D and E?

1. 1
2. 2
3. 3
4. 4
5. 5

Answer: 4 (C, G, F and B have birthday between D and E)

Q. (28) Who among the following is not born before F?

1. A
2. D
3. C
4. H

5. G

Answer: 4 (H is not born before F)

Solution:

Month	14th	21st
January	A	D
March	C	G
April	F	B
June	E	H

Directions Q. (29 - 31): In these questions, the relationship between different elements is shown in the statements. The statements are followed by two conclusions. Find the conclusion which is definitely true.

Q. (29)

Statements:

$A > B = C < D < E > F$

Conclusions:

- I. $F < C$
- II. $A > D$

1. If only Conclusion I is true.
2. If only Conclusion II is true.
3. If either Conclusion I or II is true.
4. If neither Conclusion I nor II is true.
5. If both Conclusions I and II are true.

Answer: 4

Solution: $A > B = C < D < E > F$

For **conclusion I:** $C < D < E > F$ - no relation between F and C can be established.

For **conclusion II**: $A > B = C < D$ - no relation between A and D can be established.
Hence, neither conclusion I nor conclusion II is true.

Q. (30)

Statements:

$A < B > C > D$; $A > E$, $D > F$

Conclusions:

- I. $F > B$
- II. $B > E$

- 1. If only Conclusion I is true.
- 2. If only Conclusion II is true.
- 3. If either Conclusion I or II is true.
- 4. If neither Conclusion I nor II is true.
- 5. If both Conclusions I and II are true.

Answer: 2

Solution: $A < B > C > D$; $A > E$, $D > F$ by combining both the statement we get

$E < A < B > C > D > F$

For **conclusion I**: $B > C > D > F$ - B is greater than F

For **conclusion II**: $E < A < B$ - B is greater than E

Hence, only Conclusion II is true.

Q. (31)

Statements:

$A = B < C > D$; $E > C < F$

Conclusions:

- I. $E > A$
- II. $F > D$

- 1. If only Conclusion I is true.

2. If only Conclusion II is true.
3. If either Conclusion I or II is true.
4. If neither Conclusion I nor II is true.
5. If both Conclusions I and II are true.

Answer: 5

Solution: $A = B < C > D$; $E > C < F$

For **conclusion I:** $A = B < C < E$ - E is greater than A

For **conclusion II:** $F > C > D$, therefore, $F > D$

Hence, both Conclusions I and Conclusion II are true.

Q. (32) Which of the following symbols should replace the sign (\$) and (#) in the given expression in order to make the expression $S > J$ and $M \geq J$ is definitely true?

$S \geq T \$ P > K \leq N, O < M = K \# J > L$

1. =, <
2. >, ≤
3. <, ≥
4. <, ≤
5. >, ≥

Answer: 5

Solution:

$S \geq T \$ P > K \leq N, O < M = K \# J > L$

By replacing the symbols \$ and # with (>) and (≥) we get,

$S \geq T > P > K \geq J$

Hence $S > J$ is definitely true

Therefore, $M = K \geq J$, hence, $M \geq J$ is also definitely true.

Q. (33) Which of the following symbols should replace the \$ and # in the given expression in order to make the expression $L \geq S$ and $N > T$ is definitely true?

$N > O \leq L = P \$ T, H > M \leq T \# S < N$

1. >, <

2. \geq, \leq
3. $\geq, =$
4. $<, \leq$
5. $>, \geq$

Answer: 3

Solution: $N > O \leq L = P \$ T, H > M \leq T \# S < N$

By replacing the symbols \$ and # with (\geq) and ($=$) we get,

$N > O \leq L = P \geq T, H > M \leq T = S < N$

Hence $L \geq S$ is definitely true.

$T = S < N$, therefore, $N > T$ is definitely true.

Q. (34) Direction: If 1 number is added in even digit in the given number 9458732 and 2 is subtracted in an odd digit, then how many digit is repeated in the newly formed number?

1. 1
2. 2
3. 3
4. 4
5. 5

Answer: 2

Solution: Given number is 9458732

According to the given condition, we get,

- $9 - 2 = 7$
- $4 + 1 = 5$
- $5 - 2 = 3$
- $8 + 1 = 9$
- $7 - 2 = 5$
- $3 - 2 = 1$
- $2 + 1 = 3$
- Thus, the newly formed number is 7539513 and the digits that are being repeated are 5 and 3.

Q. (35) In a certain code language 'green grass everywhere' is written as 'dik pa sok' and 'cow eats grass' is written as 'nok ta pa'. How is 'cow' written in that code language?

1. nok
2. ta
3. nok or ta
4. Data inadequate
5. None of these

Answer: 3

Solution: green grass everywhere: dik pa sok'

- green : dik/ sok
- grass : pa
- everywhere : sok/ dik

cow eats grass : nok ta pa

- cow : nok/ta
- eats : ta/ nok
- grass : pa

It is clear that cow is written as 'nok' or 'ta'