Directions: Answer the questions based on the information given below.

Eight persons P, Q, R, S, T, U, V and W sit in a straight row facing north. Each of them has different number of books (2, 3, 4, 5, 6, 7, 8 and 9). Persons sitting at the extreme ends have prime number of books.

R sits 3rd to the right of the person with 9 books. Prime number of persons sits to the right of R.

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One person sits between R and T, who has 4 books. S sits 5th to the right of V. Person with 2 books sit to the left of S. R has twice the number of books with V. S has prime number of books.

Two persons have more books than U. P has more books than Q, who has more books than W.

W sits to the right of Q. U sits to the left of V.

Question 1: P sits ___ to the left of R.

A) 2nd

B) 4th

C) 3rd

D) 5th

E) None of the above

Question 2: Who sits 3rd to the right of Q?

A) R

B) W

C) T

D) U

E) None of the above

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Question 3: Sum of number of books with S and the person, who sits immediate left of R is ___.

A) 13

B) 14

C) 11

D) 17

E) None of the above

Question 4: Difference between the number of books with W and P is ___.

A) 5

B) 7

C) 3

D) 4

E) None of the above

Question 5: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given

conclusions logically follows from the three statements disregarding commonly known facts.

Statements:

No box is bottle

Only a few band is box

Only band is floor

Conclusions:

I. Some band is not bottle

II. Mostly box being floor is a possibility

A) Only conclusion II follows

B) Only conclusion I follows

C) Neither conclusion I nor conclusion II follows

D) Both conclusion I and conclusion II follow

E) None of the above

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Question 6: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

Statements:

Only a few hut is shut

Mostly shut is root

No root is tent

Conclusions:

I. All tent can never be shut

II. All shut can never be tent

A) Only conclusion I follows

B) Both the conclusions I and II follow

C) Neither conclusion I nor II follows

D) Only conclusion II follows

E) Either conclusion I or II follows

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Directions: Answer the questions based on the information given below.

Seven people P, Q, R, S, T, U and V work in a bank on seven different designations viz. CEO, CFO, Director, MD, GM, AM and Clerk but not necessarily in the same order. All the designations are given in descending order such that CEO is senior most designation and Clerk is the junior most designation.

U is junior to P. Only two persons are senior to Q. Only one person is designated between Q and V. There are more than two persons are designated between V and R, who is not a clerk. At least three persons are designated between S and R. S is senior to R. T is neither a GM nor Clerk.

Question 7: Who among the following is the GM?

A) T

B) R

C) P

D) U

E) None of the above

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Question 8: Who among the following is immediate junior to V?

A) The one, who is the Director

B) The one, who is the MD

C) The one, who is the AM

D) The one, who is the CFO

E) None of the above

Question 9: Complete the hierarchy from senior to junior?

V > S > _ > _ > _ > _ > _

A) Q > T > P > R > U

B) T > Q > R > U > P

C) P > R > U > T > Q

D) Q > T > P > U > R

E) None of the above

Directions: Answer the questions based on the information given below.

Rahul walks 5km towards the north from point P, then takes a right turn and walks 5km. He now takes a left turn and walks 5km. Then, he takes another left turn and walks 10km. Now, he takes right turn and walks for another 5km to reach point Z.

Question 10: Point P is in which direction with respect to point Z?

A) South-west

B) North-west

C) North-east

D) South-east

E) None of the above

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Question 11: If Rahul moves 15km towards the south from point Z, then what is the shortest distance between Rahul's current position and point P?

A) 10km

B) 5km

C) 7km

D) 15km

E) None of the above

Directions: Answer the questions based on the information given below.

There are eight family members A, B, C, D, E, F, G and H having three generations. Also, there are two married couples and two grandchildren in the family. No single person is a parent in the family.

G is the uncle of F, who is the daughter of C. H has one daughter and one son only. B is granddaughter of A and sister of D. A is sister-in-law of G. H is not male member. F has only one brother.

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Question 12: How is D related to F?

A) Uncle

B) Aunt

C) Nephew

D) Niece

E) None of the above

Question 13: How is H related to the father of E?

A) Daughter

B) Sister

C) Mother

D) Mother in law

E) Daughter in law

Question 14: In the question, assuming the given statements to be true, find which of the conclusion(s) among given two conclusions is /are definitely true and then give your answer accordingly.

Statements: $M > R \geq H = B$; $F \leq D \leq B > A$; $H \leq N \leq L = Z$

Conclusions:

I. $Z \geq B$

II. $Z < F$

A) Only conclusion I is true

B) Only conclusion II is true

C) Either conclusion I or conclusion II is true

D) Both conclusions I and II are true

E) Neither conclusion I nor conclusion II is true

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Directions: Answer the questions based on the information given below.

Seven persons namely A, B, C, D, E, F and G were born in four different months January, July, October and December of a year such that not more than two persons were born in the same month. Also, each one of them were born on seven different dates i.e., 1st, 2nd, 3rd, 4th, 5th, 7th and 8th but not in the same order.

C was born on 4th of the month. A and C were born in January but A was not born on 5th. E was born on 1st but not in December. The one who was born on 3rd was born in December. B and D were born in the same month. B was born on 2nd of the month. Only F was born in July. G and E were born in the same month. None of the persons, who were born in January and October, were born on 8th.

Question 15: Who among the following was born on 7th date?

A) E

B) B

C) A

D) D

E) Can't be determined

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Question 16: B was born in ___month?

A) October

B) January

C) July

D) December

E) Either July or October

Question 17: Who among the following was born in the same month with A?

A) The one who was born on 5th of the month

B) C

C) The one who was born on 8th of the month

D) E

E) None of the above

Question 18: Who was born in October?

A) E

B) A

C) F

D) B

E) Can't be determined

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Question 19: Which of the following statements is true?

A) B and E were born in the same month

B) G was born on 8th of the month

C) D was born on even number date

D) G was born on odd number date

E) None is true

Question 20:

In the question given below, a passage is given followed by three statements which may or may not be inferred from the passage. Select the correct combination of statements that can be inferred.

A citizen science initiative supported by the U.S.-based Backyard Worlds project has led to the discovery of a brown dwarf planet, somewhat warmer than Jupiter and nearly 100 light years away from the Sun. This discovery, confirmed using an infrared telescope, happened a few days after the Backyard Worlds website was launched.

1. Light years is a unit of distance, not time.

2. Jupiter is also a brown dwarf planet.

3. Discoveries of dwarf planets are usually made using infrared telescopes.

A) Only 1

B) Only 1 and 2

C) Only 1 and 3

D) Only 2 and 3

E) All 1, 2 and 3

निर्देश: दिएगएजानकारीकेआधारपरसवालोंकेउत्तरदें|

आठव्यक्ति P, Q, R, S, T, U, V और W एकसीधीपंक्तिमेंउत्तरकासामनाकरतेहुएबैठेहैं|इनमेंसेप्रत्येककेपास books कीअलग-अलगसंख्याहै (2, 3, 4, 5, 6, 7, 8 और 9)|अंतिमछोरपरबैठेव्यक्तिकेपासअभाज्यसंख्यामें books है|

R उसव्यक्तिकेदाएँसेतीसरेस्थानपरबैठाहैजिसकेपास 9 books है|अभाज्यसंख्यामेंव्यक्ति R केदाएँओरबैठेहै|

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एकव्यक्ति R और T केबीचबैठाहैऔर T केपास 4 books है|S V केदाएँसेपांचवेंस्थानपरबैठाहै|वहव्यक्ति S केबाएंओरबैठाहैजिसकेपास 2 books है|Rके books कीसंख्या V के books कीसंख्याकादोगुनाहै|Sकेपासअभाज्यसंख्यामें books है|

दोव्यक्तिकेपास U सेअधिक books है|Pकेपास Q सेअधिक books हैऔर Q केपास W सेअधिक books है|

W Q केदाएँओरबैठाहै|U V केबाएंओरबैठाहै|

प्रश्न 1: P R केबाएंसे _____ स्थानपरबैठाहै|

A) 2nd

B) 4th

C) 3rd

D) 5th

E) इनमेसेकोईनहीं

प्रश्न 2: Q केदाएँसेतीसरेस्थानपरकौनबैठाहै?

A) R

B) W

C) T

D) U

E) इनमेसेकोईनहीं

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प्रश्न 3: S औरउसव्यक्तिके books कीसंख्याकायोग _____ है, जो R केतत्कालबाएंओरबैठाहै|

A) 13

B) 14

C) 11

D) 17

E) इनमेसेकोईनहीं

प्रश्न 4: W और P के books कीसंख्याकेबीचकाअंतर _____ है|

A) 5

B) 7

C) 3

D) 4

E) इनमेसेकोईनहीं

प्रश्न 5: प्रश्नमेंतीनकथनऔरउसकेबाददोनिष्कर्ष I और II दिएगएहैं।आपकोदिएगएतीनकथनोंकोसत्यमाननाहै, भलेहीवेसामान्यरूपसेज्ञाततथ्योंसेअलगदिखाईदेतेहोऔरफिरतयकरेंकिदिएगएनिष्कर्षोंमेंसेकौन-सानिष्कर्षसामान्यरूपसेज्ञाततथ्योंकीअवहेलनाकरताहैऔरतीनकथनोंकातार्किकरूपसेअनुसरणकरताहै।

कथन:

कोई box bottle नहींहै।

केवलकुछ band box है।

केवल band floor है।

निष्कर्ष:

I. कुछ band bottle नहींहै।

II. अधिकांश box के floor होनेकीसंभावनाहै।

A) केवलनिष्कर्ष II अनुसरणकरताहै

B) केवलनिष्कर्ष I अनुसरणकरताहै

C) नतोनिष्कर्ष I औरनहीनिष्कर्ष II अनुसरणकरताहै

D) निष्कर्ष I औरनिष्कर्ष II दोनोंअनुसरणकरतेहैं

E) उपरोक्तमेंसेकोईनहीं

प्रश्न 6: प्रश्नमेंतीनकथनऔरउसकेबाददोनिष्कर्ष I और II दिएगएहैं।आपकोदिएगएतीनकथनोंकोसत्यमाननाहै, भलेहीवेसामान्यरूपसेज्ञाततथ्योंसेअलगदिखाईदेतेहोऔरफिरतयकरेंकिदिएगएनिष्कर्षोंमेंसेकौन-सानिष्कर्षसामान्यरूपसेज्ञाततथ्योंकीअवहेलनाकरतेहुएतीनकथनोंकातार्किकरूपसेअनुसरणकरताहै।

कथन:

केवलकुछ hut shut है।

अधिकतर shut root है।

कोई root tent नहींहै।

निष्कर्ष:

I. सभी tent कभीभी shut नहींहोसकतेहैं।

II. सभी shut कभीभी tent नहींहोसकतेहैं।

A) केवलनिष्कर्ष I अनुसरणकरताहै

B) निष्कर्ष I और II दोनोंअनुसरणकरतेहैं

C) नतोनिष्कर्ष I औरनही II अनुसरणकरताहै

D) केवलनिष्कर्ष II अनुसरणकरताहै

E) यातोनिष्कर्ष I या II अनुसरणकरताहै

निर्देश: दिएगएजानकारीकेआधारपरसवालोंकेउत्तरदें|

सातव्यक्ति P, Q, R, S, T, U और V एकबैंकमेंसातविभिन्नपदपरकार्यरतहैअर्थात CEO, CFO, Director, MD, GM, AM और Clerk परजरुरीनहींकिसमानक्रममेंहों|सभीपदअवरोहीक्रममेंहैजहाँ CEO सबसेवरिष्ठपदहैऔर Clerk सबसेनिचलापदहै|

U P सेनिचलेपदपरकार्यरतहै|केवलदोव्यक्ति Q सेवरिष्ठहै|Qऔर V केबीचकेवलएकव्यक्तिकापदहै|Vऔर R केबीचदोसेअधिकव्यक्तिकापदहैऔर R एक clerk नहींहै|Sऔर R केबीचकमसेकमतीनव्यक्तिकापदहै|S R सेवरिष्ठहै|Tनाही GM नाही Clerk है|

प्रश्न 7: निम्नलिखितमेंसेकौन GM है?

A) T

B) R

C) P

D) U

E) इनमेसेकोईनहीं

प्रश्न 8: निम्नलिखितमेंसेकौन V सेतत्कालनिचलेपदपरकार्यरतहै?

A) वहव्यक्ति, जो Director है

B) वहव्यक्ति, जो MD है

C) वहव्यक्ति, जो AM है

D) वहव्यक्ति, जो CFO है

E) इनमेसेकोईनहीं

प्रश्न 9: शीर्षसेनिचलेक्रममेंपदानुक्रमकोपूराकरें|

V > S > _ > _ > _ > _ > _

A) Q > T > P > R > U

B) T > Q > R > U > P

C) P > R > U > T > Q

D) Q > T > P > U > R

E) इनमेसेकोईनहीं

निर्देश: नीचेदीगईजानकारीकेआधारपरप्रश्नोंकेउत्तरदें।

राहुलबिंदु P सेउत्तरकीओर 5km चलताहै, फिरदाएंमुड़कर 5km चलताहै।अबवहबाएंमुड़ताहैऔर 5km चलताहै।फिर, वहएकऔरबाएंमुड़ताहैऔर 10km चलताहै।अब, वहदाएंमुड़करबिंदु Z परपहुंचनेकेलिए 5km औरचलताहै।

प्रश्न 10: बिंदु Z केसन्दर्भमेंबिंदु P किसदिशामेंहै?

A) दक्षिण- पश्चिम

B) उत्तर-पश्चिम

C) उत्तर-पूर्व

D) दक्षिण-पूर्व

E) उपरोक्तमेंसेकोईनहीं

प्रश्न 11: यदिराहुलबिंदु Z सेदक्षिणकीओर 15km चलताहै, तोराहुलकीवर्तमानस्थितिऔरबिंदु P केबीचन्यूनतमदूरीक्याहै?

A) 10km

B) 5km

C) 7km

D) 15km

E) उपरोक्तमेंसेकोईनहीं

निर्देश: दिएगएजानकारीकेआधारपरसवालोंकेउत्तरदें।

तीनपीढ़ीकेएकपरिवारमेंआठसदस्यहैं A, B, C, D, E, F, G औरH।साथही, परिवारमेंदोविवाहितयुगलऔरदोपोता/नाती/पोती/नवासीहै।परिवारमेंकोईएकल अभिवावकनहींहै।

G F काचाचा/मामाहैऔर F C कीपुत्रीहै|Hकीकेवलएकपुत्रीऔरएकपुत्रहै|B A कीपोती/नवासीहैऔर D कीबहनहै|A G कीसाली/ननद/भाभीहै|Hएकपुरुषसदस्यनहींहै|Fकाकेवलएकभाईहै|

प्रश्न 12: D F सेकैसेसम्बंधितहै?

A) चाचा/मामा

B) चाची/मामी

C) भतीजा/भांजा

D) भतीजी/भांजी

E) इनमेसेकोईनहीं

प्रश्न 13: H E केपितासेकैसेसम्बंधितहै?

A) पुत्री

B) बहन

C) माता

D) सास

E) बहु

प्रश्न 14: प्रश्नमें, दिएगएकथनोंकोसत्यमानतेहुएज्ञातकरेंकिदिएगएदोनिष्कर्षोंमेंसेकौन-सानिष्कर्षनिश्चितरूपसेसत्यहैऔरफिरउसीकेअनुसारअपनाउत्तरदें।

कथन: M > R ≥ H = B; F ≤ D ≤ B > A; H ≤ N ≤ L = Z

निष्कर्ष:

I. Z ≥ B

II. Z < F

A) केवलनिष्कर्ष I सत्यहै

B) केवलनिष्कर्ष II सत्यहै

C) यातोनिष्कर्ष I यानिष्कर्ष II सत्यहै

D) निष्कर्ष I और II दोनोंसत्यहैं

E) नतोनिष्कर्ष I औरनहीनिष्कर्ष II सत्यहै

निर्देश: दिएगएजानकारीकेआधारपरसवालोंकेउत्तरदें|

सातव्यक्ति A, B, C, D, E, F और G काजन्मएकवर्षकेचारमहीने January, July, October और December मेंहोताहैजहाँएकमहीनेमेंदोसेअधिकव्यक्तियोंकाजन्मनहींहोताहै|साथही, इनमेसेप्रत्येककाजन्मसातविभिन्नतारीखकोहोताहैअर्थात 1st, 2nd, 3rd, 4th, 5th, 7th और 8th परजरुरीनहींकिक्रममेंहों|

C काजन्मएकमहीनेके 4th कोहोताहै|Aऔर C काजन्म January मेंहोताहैपर A काजन्म 5th कोनहींहोताहै|Eकाजन्म 1st कोहोताहैपरDecember मेंनहीं|3rd कोजन्मलेनेवालाव्यक्तिकाजन्म December मेंहोताहै|Bऔर D काजन्मएकहीमहीनेमेंहोताहै|Bकाजन्ममहीनेके 2nd कोहोताहै|केवल F काजन्म July मेंहोताहै|Gऔर E काजन्मएकमहीनेमेंहोताहै|Januaryऔर October मेंजन्मलेनेवालेकिसीभीव्यक्तिकाजन्म 8th कोनहींहोताहै|

प्रश्न 15: निम्नलिखितमेंसेकिसव्यक्तिकाजन्म 7th कोहोताहै?

A) E

B) B

C) A

D) D

E) निर्धारितनहींकियाजासकता

प्रश्न 16: B काजन्म _____ महीनेमेंहोताहै?

A) October

B) January

C) July

D) December

E) Either July or October

प्रश्न 17: निम्नलिखितमेंसेकिसव्यक्तिकाजन्म A केसाथसमानमहीनेमेंहोताहै?

A) वहव्यक्तिजिसकाजन्ममहीनेके 5th कोहोताहै

B) C

C) वह व्यक्ति जिसका जन्म महीने के 8th को होता है

D) E

E) इनमेसे कोई नहीं

प्रश्न 18: October में कौन जन्म लेता है?

A) E

B) A

C) F

D) B

E) Can't be determined

प्रश्न 19: निम्नलिखित में से कौन सा कथन सत्य है?

A) B और E का जन्म समान महीने में होता है

B) G का जन्म महीने के 8th को होता है

C) D का जन्म सम संख्या की तारीख को होता है

D) G का जन्म एक विषम संख्या की तारीख को होता है

E) कोई सत्य नहीं है

प्रश्न 20: नीचेदिएगएप्रश्नमें, एकगद्यांशदियागयाहैजिसकेबादतीनबयानदिएगएहैंजोमार्गसेअनुमानितहोसकतेहैंयानहींहोसकतेहैं।अनुमानितबयानकेसहीसंयोजनकाचयनकरें।

U.S.-based Backyard Worlds project द्वारासमर्थितएकनागरिकविज्ञानपहलनेभूरेरंगकेबौनेग्रहकीखोजकीहै, जोबृहस्पतिसेकुछहदतकगर्महैऔरसूर्यसेलगभग 100 प्रकाशवर्षदूरहै।यहखोज, इन्फ्रारेडटेलीस्कोपकाउपयोगकरकेपुष्टिकीगई, Backyard Worlds कीवेबसाइटलॉन्चहोनेकेकुछदिनबादहुईहै।

1. प्रकाशवर्षदूरीकीएकइकाईहै, समयकीनहीं।

2. Jupiter भीएकभूराबौनाग्रहहै।

3. बौनाग्रहोंकीखोजआमतौरपरइन्फ्रारेडटेलीस्कोपकाउपयोगकरकेकीजातीहै।

A) Only 1

B) Only 1 and 2

C) Only 1 and 3

D) Only 2 and 3

E) All 1, 2 and 3

ANSWER KEYS and SOLUTIONS:

1) - C)	2) - C)	3) - A)	4) - B)	5) - B)	6) - D)
7) - C)	8) - D)	9) - A)	10) - D)	11) - B)	12) - C)
13) - E)	14) - A)	15) - C)	16) - D)	17) - B)	18) - A)
19) - D)	20) - A)				

Solution 1: C)

Starting Point: Consider the direct clues and then proceed by placing R, T and the person with 9 books.

Direct Clues:

Two persons have more books than U.

Clues:

R sits 3rd to the right of the person with 9 books.

Prime number of persons sits to the right of R.

R has twice the number of books with V.

Inference:

U has 7 books.

Either two or three persons sit to the right of R.

R must have 6 books and V must have 3 books.

Case I: Two persons sit to the right of R:

					R		
		9			6		

Case II: Three persons sit to the right of R:

				R			
	9			6			

Clues:

One person sits between R and T, who has 4 books.

S has prime number of books.

S sits 5th to the right of V.

Person with 2 books sit to the left of S, this is not possible in case I, so case I is rejected.

U sits to the left of V.

Inference:

S must have 5 books and sits in the extreme right end.

U sits at the extreme left end.

U		V		R		T	S
7	9	3		6		4	5

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Clues:

P has more books than Q, who has more books than W.

W sits to the right of Q.

Inference:

P must have 9 books, Q must have 8 books and W must have 2 books.

W sits immediate left of T.

P sits immediate right of U.

Q sits immediate left of R.

The final seating arrangement is given below:

U	P	V	Q	R	W	T	S
7	9	3	8	6	2	4	5

P sits 3rd to the left of R.

Hence, option c.

Solution 2: C)

T sits 3rd to the right of Q.

Hence, option c.

Solution 3: A)

S has 5 books. Q, who sits immediate left of R, has 8 books.

Sum = (5 + 8) = 13

Hence, option a.
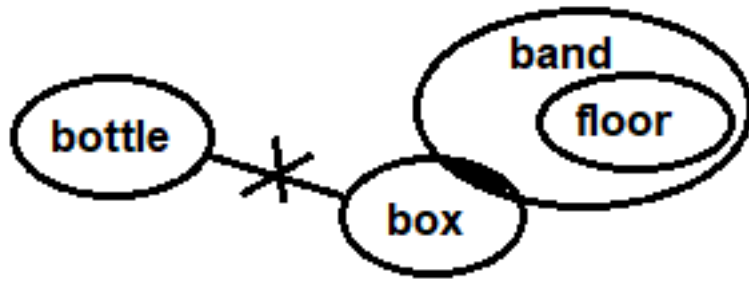
Solution 4: B)

W has 2 books and P has 9 books.

Difference = (9 – 2) = 7.

Hence, option b.

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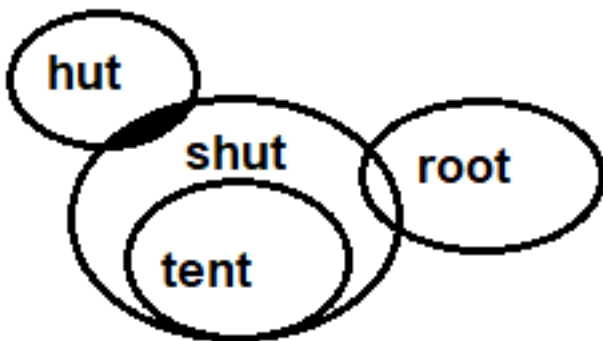
Solution 5: B)
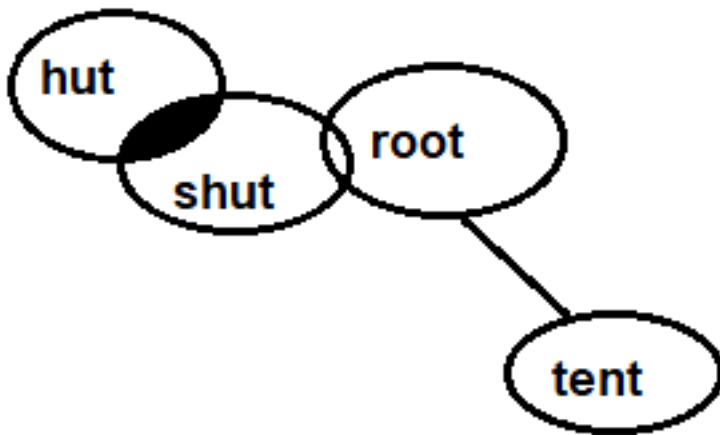
Following figure can be formed:

Only band is floor means floor is only part of band, so, "Mostly box being floor is a possibility" doesn't follow.

From the figure, only conclusion I follows.

Hence, option b.

Solution 6: D)

Following figures can be formed from the statements:

From the above figures, all tent can never be shut is not true, so, conclusion I does not follow. All shut can never be tent is true as no root is tent, so, conclusion II follows.

Hence, option d.

Solution 7: C)

Starting Point: Start with the direct information we have, only two persons are senior to Q so, Q must be Director of the bank.

Clues:

1. There are more than two persons designated between V and R and R is not junior most employee.

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2. Only one person designated between Q and V.

Designations	Case I	Case II	Case III
CEO	V	V	R
CFO			
Director	Q	Q	Q
MD			
GM	R		V
AM		R	
Clerk			

Clues:

1. At least three persons are designated between S and R.

2. S is senior to R. T is neither a GM nor Clerk.

3. U is junior to P.

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Inference: Now, with reference to clue 1, case I is invalid. Also, S is senior to R so, case III, also, invalid.

The final arrangement is as follows:

Designations	Persons
CEO	V
CFO	S
Director	Q
MD	T
GM	P
AM	R
Clerk	U

P is the GM of the bank.

Hence, option c.

Solution 8: D)

The one, who is the CFO is immediate junior to V.

Hence, option d.

Solution 9: A)

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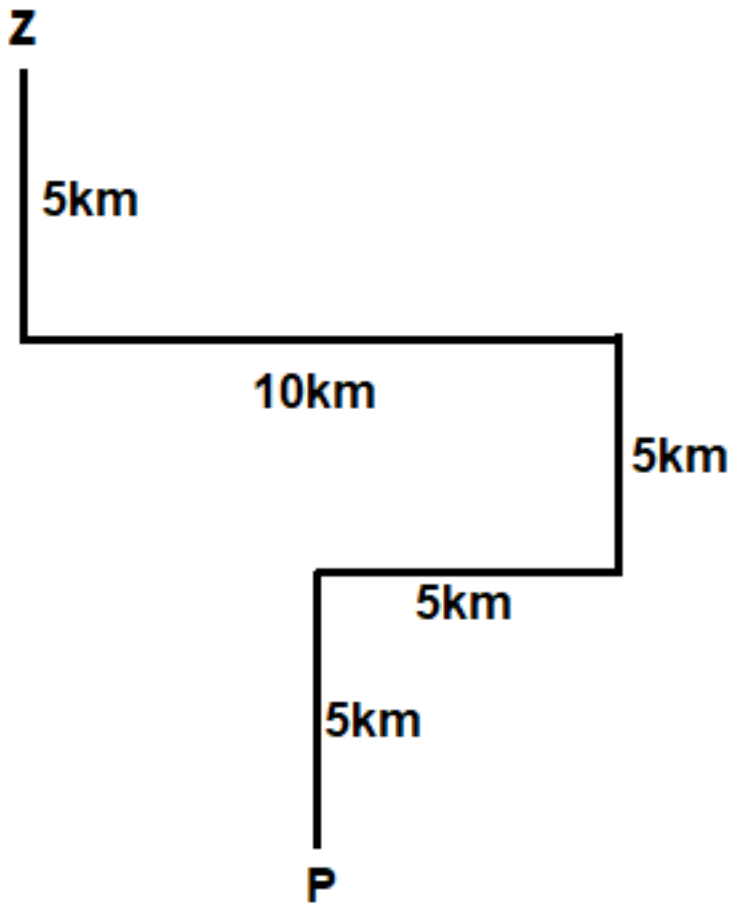Given persons are designated as follows.

V > S > Q > T > P > R > U.

Hence, option a.

Solution 10: D)

Following figure can be formed from the given information:
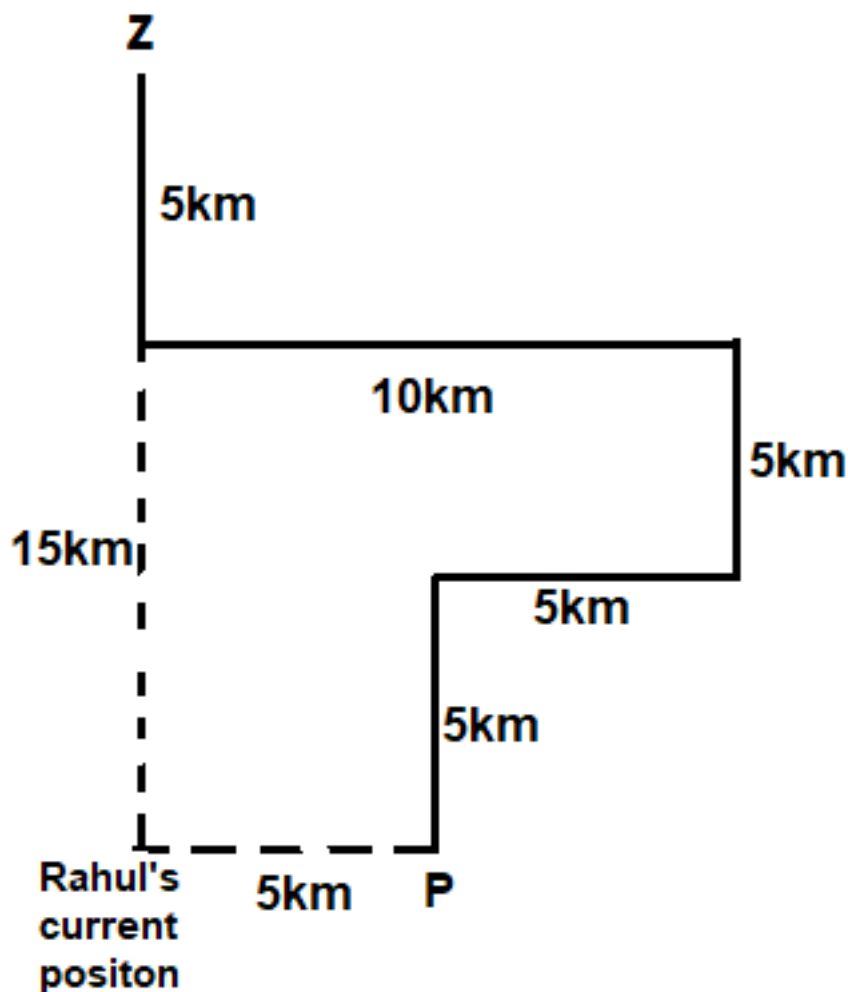
Z

5km

10km

5km

5km

5km

P

Point P is in south-east with respect to point Z.

Hence, option d.

Solution 11: B)

If Rahul moves 15km towards the south from point Z,
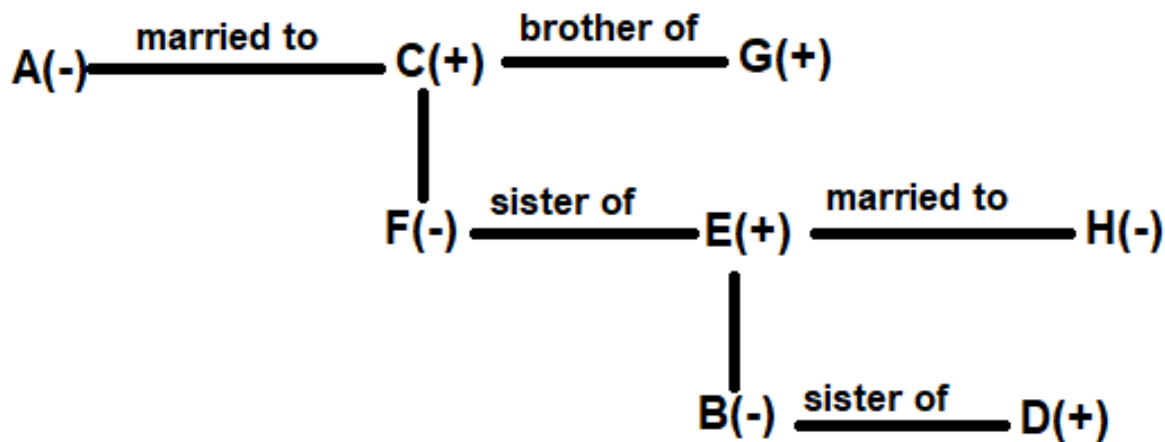
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Hence, option b.

Solution 12: C)

So, B and D are siblings and B is granddaughter of A, who is sister in law of G, who is uncle of F, who is the daughter of C which means C and G are siblings and A must be the husband of C. Also, F has only brother which means K is the brother of F and husband of H.

Family tree is as follows:

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D is the nephew of F.

Hence, option c.

Solution 13: E)

H is the daughter in law of C, who is father of E.

Hence, option e.

Solution 14: A)

Given statements: M > R ≥ H = B; F ≤ D ≤ B > A; H ≤ N ≤ L = Z

On combining, we get

F ≤ D ≤ B = H ≤ N ≤ L = Z; M > R ≥ H ≤ N ≤ L = Z; M > R ≥ H = B > A

Conclusions:

I. Z ≥ B: True (As B = H ≤ N ≤ L = Z, so, Z ≥ B)

II: Z < F: False (As F ≤ D ≤ B = H ≤ N ≤ L = Z, so, Z ≥ F)

Only conclusion I is true.

Hence, option a.

Solution 15: C)

Starting Point: Start with fixing A and C as both were born in January.

Clues: Only F was born in July. E was born on 1ˢᵗ but not in December.

Persons	Months	Dates
A	January	
F	July	
C	January	

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Clues: G and E were born in the same month. B and D were born in the same month. B was born on 2ⁿᵈ of the month.

Inference: As not more than 2 persons were born in the same month so, E and G were born in October as E was not born in December.

Persons	Months	Dates
A	January	
F	July	
C	January	
E	October	1ˢᵗ
G	October	
B	December	2ⁿᵈ
D	December	

Clues: The one who was born on 3ʳᵈ was born in December. C was born on 4ᵗʰ of the month. None of the persons, who were born in January and October, were born on 8ᵗʰ.

Inference: So, D must be born on 3ʳᵈ. Now, A was not born on 1ˢᵗ which means E must be born on 1ˢᵗ. Also, none of the one who were born in January or October were born on 8ᵗʰ which means F was born on 8ᵗʰ.

The final arrangement is as follows:

Persons	Months	Dates
A	January	7th
F	July	8th
C	January	4th
E	October	1st
G	October	5th
B	December	2nd
D	December	3rd

A was born on 7th January.

Hence, option c.

Solution 16: D)

B was born in December

Hence, option d.

Solution 17: B)

C was born in the same month with A.

Hence, option b.

Solution 18: A)

E was born in October.

Hence, option a.

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Solution 19: D)

G was born on odd number date i.e., 5th October.

Hence, option d.

Solution 20: A)

The premise tells us that the brown dwarf planet is almost 100 light years away from the Sun - the premise is describing the distance of the planet from the Sun. 1 follows. Thus, (a) is the right answer.

Although the premise compares the temperatures of Jupiter and the brown dwarf planet, it cannot be concluded that Jupiter is also a brown dwarf planet. 2 does not follow. Additionally, the premise tells us that this brown dwarf planet was discovered using an infrared telescope, which does not necessarily mean that all such discoveries of dwarf planets are made using infrared telescopes. 3 does not follow.

Directions: Answer the questions based on the information given below.

Eight persons P, Q, R, S, T, U, V and W sit in a straight row facing north. Each of them has different number of books (2, 3, 4, 5, 6, 7, 8 and 9). Persons sitting at the extreme ends have prime number of books.

R sits 3rd to the right of the person with 9 books. Prime number of persons sits to the right of R.

One person sits between R and T, who has 4 books. S sits 5th to the right of V. Person with 2 books sit to the left of S. R has twice the number of books with V. S has prime number of books.

Two persons have more books than U. P has more books than Q, who has more books than W.

W sits to the right of Q. U sits to the left of V.

Question 1: P sits ___ to the left of R.

A) 2nd

B) 4th

C) 3rd

D) 5th

E) None of the above

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Question 2: Who sits 3rd to the right of Q?

A) R

B) W

C) T

D) U

E) None of the above

Question 3: Sum of number of books with S and the person, who sits immediate left of R is ___.

A) 13

B) 14

C) 11

D) 17

E) None of the above

Question 4: Difference between the number of books with W and P is ___.

A) 5

B) 7

C) 3

D) 4

E) None of the above

Question 5: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

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Statements:

No box is bottle

Only a few band is box

Only band is floor

Conclusions:

I. Some band is not bottle

II. Mostly box being floor is a possibility

A) Only conclusion II follows

B) Only conclusion I follows

C) Neither conclusion I nor conclusion II follows

D) Both conclusion I and conclusion II follow

E) None of the above

Question 6: In the question below there are three statements followed by two conclusions I and II. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

Statements:

Only a few hut is shut

Mostly shut is root

No root is tent

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Conclusions:

I. All tent can never be shut

II. All shut can never be tent

A) Only conclusion I follows

B) Both the conclusions I and II follow

C) Neither conclusion I nor II follows

D) Only conclusion II follows

E) Either conclusion I or II follows

Directions: Answer the questions based on the information given below.

Seven people P, Q, R, S, T, U and V work in a bank on seven different designations viz. CEO, CFO, Director, MD, GM, AM and Clerk but not necessarily in the same order. All the designations are given in

descending order such that CEO is senior most designation and Clerk is the junior most designation.

U is junior to P. Only two persons are senior to Q. Only one person is designated between Q and V. There are more than two persons are designated between V and R, who is not a clerk. At least three persons are designated between S and R. S is senior to R. T is neither a GM nor Clerk.

Question 7: Who among the following is the GM?

A) T

B) R

C) P

D) U

E) None of the above

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Question 8: Who among the following is immediate junior to V?

A) The one, who is the Director

B) The one, who is the MD

C) The one, who is the AM

D) The one, who is the CFO

E) None of the above

Question 9: Complete the hierarchy from senior to junior?

V > S > _ > _ > _ > _ > _

A) Q > T > P > R > U

B) T > Q > R > U > P

C) P > R > U > T > Q

D) Q > T > P > U > R

E) None of the above

Directions: Answer the questions based on the information given below.

Rahul walks 5km towards the north from point P, then takes a right turn and walks 5km. He now takes a left turn and walks 5km. Then, he takes another left turn and walks 10km. Now, he takes right turn and walks for another 5km to reach point Z.

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Question 10: Point P is in which direction with respect to point Z?

A) South-west

B) North-west

C) North-east

D) South-east

E) None of the above

Question 11: If Rahul moves 15km towards the south from point Z, then what is the shortest distance between Rahul's current position and point P?

A) 10km

B) 5km

C) 7km

D) 15km

E) None of the above

Directions: Answer the questions based on the information given below.

There are eight family members A, B, C, D, E, F, G and H having three generations. Also, there are two married couples and two grandchildren in the family. No single person is a parent in the family.

G is the uncle of F, who is the daughter of C. H has one daughter and one son only. B is granddaughter of A and sister of D. A is sister-in-law of G. H is not male member. F has only one brother.

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Question 12: How is D related to F?

A) Uncle

B) Aunt

C) Nephew

D) Niece

E) None of the above

Question 13: How is H related to the father of E?

A) Daughter

B) Sister

C) Mother

D) Mother in law

E) Daughter in law

Question 14: In the question, assuming the given statements to be true, find which of the conclusion(s) among given two conclusions is /are definitely true and then give your answer accordingly.

Statements: $M > R \geq H = B; F \leq D \leq B > A; H \leq N \leq L = Z$

Conclusions:

I. $Z \geq B$

II. $Z < F$

A) Only conclusion I is true

B) Only conclusion II is true

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C) Either conclusion I or conclusion II is true

D) Both conclusions I and II are true

E) Neither conclusion I nor conclusion II is true

Directions: Answer the questions based on the information given below.

Seven persons namely A, B, C, D, E, F and G were born in four different months January, July, October and December of a year such that not more than two persons were born in the same month. Also, each one of them were born on seven different dates i.e., 1st, 2nd, 3rd, 4th, 5th, 7th and 8th but not in the same order.

C was born on 4th of the month. A and C were born in January but A was not born on 5th. E was born on 1st but not in December. The one who was born on 3rd was born in December. B and D were born in the

same month. B was born on 2nd of the month. Only F was born in July. G and E were born in the same month. None of the persons, who were born in January and October, were born on 8th.

Question 15: Who among the following was born on 7th date?

A) E

B) B

C) A

D) D

E) Can't be determined

Question 16: B was born in ___month?

A) October

B) January

C) July

D) December

E) Either July or October

Question 17: Who among the following was born in the same month with A?

A) The one who was born on 5th of the month

B) C

C) The one who was born on 8th of the month

D) E

E) None of the above

Question 18: Who was born in October?

A) E

B) A

C) F

D) B

E) Can't be determined

Question 19: Which of the following statements is true?

A) B and E were born in the same month

B) G was born on 8th of the month

C) D was born on even number date

D) G was born on odd number date

E) None is true

Question 20:

In the question given below, a passage is given followed by three statements which may or may not be inferred from the passage. Select the correct combination of statements that can be inferred.

A citizen science initiative supported by the U.S.-based Backyard Worlds project has led to the discovery of a brown dwarf planet, somewhat warmer than Jupiter and nearly 100 light years away from the Sun. This discovery, confirmed using an infrared telescope, happened a few days after the Backyard Worlds website was launched.

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1. Light years is a unit of distance, not time.

2. Jupiter is also a brown dwarf planet.

3. Discoveries of dwarf planets are usually made using infrared telescopes.

A) Only 1

B) Only 1 and 2

C) Only 1 and 3

D) Only 2 and 3

E) All 1, 2 and 3

ANSWER KEYS and SOLUTIONS:

1) - C)	2) - C)	3) - A)	4) - B)	5) - B)	6) - D)
7) - C)	8) - D)	9) - A)	10) - D)	11) - B)	12) - C)
13) - E)	14) - A)	15) - C)	16) - D)	17) - B)	18) - A)
19) - D)	20) - A)				

Solution 1: C)

Starting Point: Consider the direct clues and then proceed by placing R, T and the person with 9 books.

Direct Clues:

Two persons have more books than U.

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Clues:

R sits 3rd to the right of the person with 9 books.

Prime number of persons sits to the right of R.

R has twice the number of books with V.

Inference:

U has 7 books.

Either two or three persons sit to the right of R.

R must have 6 books and V must have 3 books.

Case I: Two persons sit to the right of R:

					R		
		9			6		

Case II: Three persons sit to the right of R:

				R			
	9			6			

Clues:

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One person sits between R and T, who has 4 books.

S has prime number of books.

S sits 5th to the right of V.

Person with 2 books sit to the left of S, this is not possible in case I, so case I is rejected.

U sits to the left of V.

Inference:

S must have 5 books and sits in the extreme right end.

U sits at the extreme left end.

U		V		R		T	S
7	9	3		6		4	5

Clues:

P has more books than Q, who has more books than W.

W sits to the right of Q.

Inference:

P must have 9 books, Q must have 8 books and W must have 2 books.

W sits immediate left of T.

P sits immediate right of U.

Q sits immediate left of R.

The final seating arrangement is given below:

U	P	V	Q	R	W	T	S
7	9	3	8	6	2	4	5

P sits 3rd to the left of R.

Hence, option c.

Solution 2: C)

T sits 3rd to the right of Q.

Hence, option c.

Solution 3: A)

S has 5 books. Q, who sits immediate left of R, has 8 books.

Sum = (5 + 8) = 13

Hence, option a.

Solution 4: B)

W has 2 books and P has 9 books.

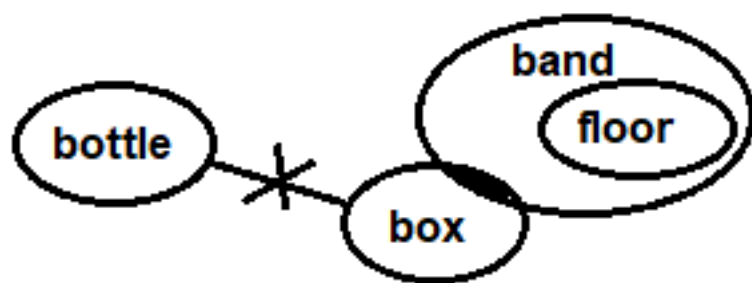Difference = (9 – 2) = 7.

Hence, option b.

Solution 5: B)

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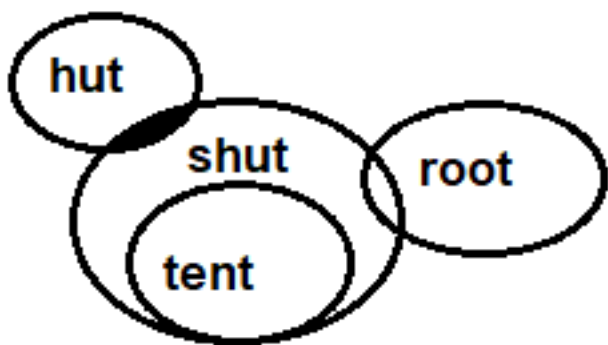
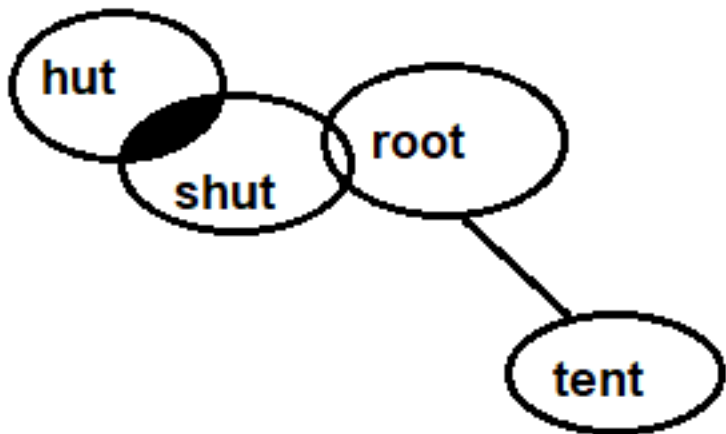Following figure can be formed:

Only band is floor means floor is only part of band, so, "Mostly box being floor is a possibility" doesn't follow.

From the figure, only conclusion I follows.

Hence, option b.

Solution 6: D)

Following figures can be formed from the statements:

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From the above figures, all tent can never be shut is not true, so, conclusion I does not follow. All shut can never be tent is true as no root is tent, so, conclusion II follows.

Hence, option d.

Solution 7: C)

Starting Point: Start with the direct information we have, only two persons are senior to Q so, Q must be Director of the bank.

Clues:

1. There are more than two persons designated between V and R and R is not junior most employee.

2. Only one person designated between Q and V.

Designations	Case I	Case II	Case III

CEO	V	V	R
CFO			
Director	Q	Q	Q
MD			
GM	R		V
AM		R	
Clerk			

Clues:

1. At least three persons are designated between S and R.

2. S is senior to R. T is neither a GM nor Clerk.

3. U is junior to P.

Inference: Now, with reference to clue 1, case I is invalid. Also, S is senior to R so, case III, also, invalid.

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The final arrangement is as follows:

Designations	Persons
CEO	V
CFO	S
Director	Q
MD	T
GM	P
AM	R
Clerk	U

P is the GM of the bank.

Hence, option c.

Solution 8: D)

The one, who is the CFO is immediate junior to V.
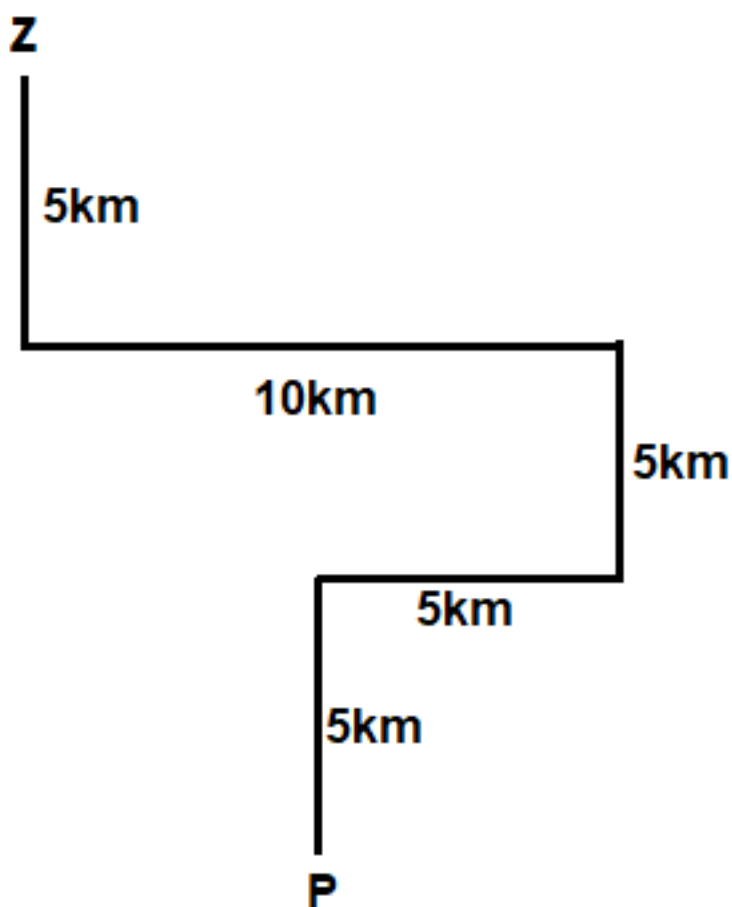
Hence, option d.

Solution 9: A)

Given persons are designated as follows.

V > S > Q > T > P > R > U.

Hence, option a.

Solution 10: D)
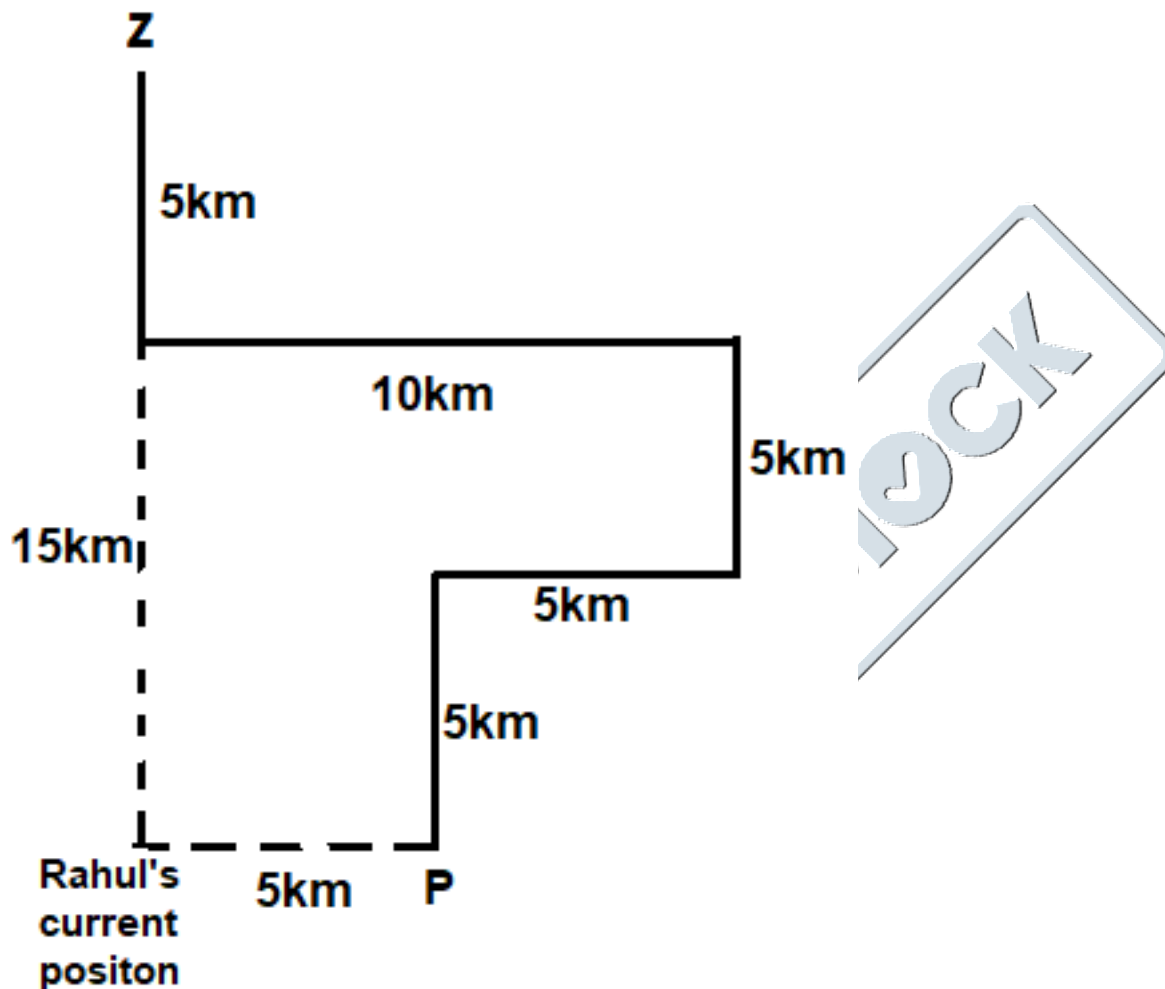
Following figure can be formed from the given information:

Point P is in south-east with respect to point Z.

Hence, option d.

Solution 11: B)
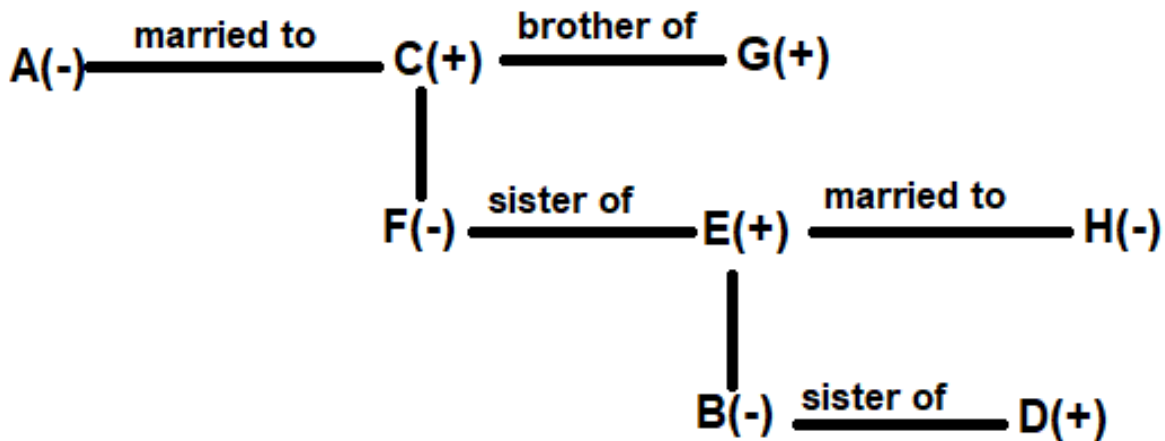
If Rahul moves 15km towards the south from point Z,

Hence, option b.

Solution 12: C)

So, B and D are siblings and B is granddaughter of A, who is sister in law of G, who is uncle of F, who is the daughter of C which means C and G are siblings and A must be the husband of C. Also, F has only brother which means K is the brother of F and husband of H.

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Family tree is as follows:

D is the nephew of F.

Hence, option c.

Solution 13: E)

H is the daughter in law of C, who is father of E.

Hence, option e.

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Solution 14: A)

Given statements: M > R ≥ H = B; F ≤ D ≤ B > A; H ≤ N ≤ L = Z

On combining, we get

F ≤ D ≤ B = H ≤ N ≤ L = Z; M > R ≥ H ≤ N ≤ L = Z; M > R ≥ H = B > A

Conclusions:

I. Z ≥ B: True (As B = H ≤ N ≤ L = Z, so, Z ≥ B)

II: Z < F: False (As F ≤ D ≤ B = H ≤ N ≤ L = Z, so, Z ≥ F)

Only conclusion I is true.

Hence, option a.

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Solution 15: C)

Starting Point: Start with fixing A and C as both were born in January.

Clues: Only F was born in July. E was born on 1st but not in December.

Persons	Months	Dates
A	January	
F	July	
C	January	

Clues: G and E were born in the same month. B and D were born in the same month. B was born on 2nd of the month.

Inference: As not more than 2 persons were born in the same month so, E and G were born in October as E was not born in December.

Persons	Months	Dates
A	January	
F	July	
C	January	
E	October	1st
G	October	
B	December	2nd
D	December	

Clues: The one who was born on 3rd was born in December. C was born on 4th of the month. None of the persons, who were born in January and October, were born on 8th.

Inference: So, D must be born on 3rd. Now, A was not born on 1st which means E must be born on 1st. Also, none of the one who were

born in January or October were born on 8th which means F was born on 8th.

The final arrangement is as follows:

Persons	Months	Dates
A	January	7th
F	July	8th
C	January	4th
E	October	1st
G	October	5th
B	December	2nd
D	December	3rd

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A was born on 7th January.

Hence, option c.

Solution 16: D)

B was born in December

Hence, option d.

Solution 17: B)

C was born in the same month with A.

Hence, option b.

Solution 18: A)

E was born in October.

Hence, option a.

Solution 19: D)

G was born on odd number date i.e., 5th October.

Hence, option d.

Solution 20: A)

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The premise tells us that the brown dwarf planet is almost 100 light years away from the Sun - the premise is describing the distance of the planet from the Sun. 1 follows. Thus, (a) is the right answer.

Although the premise compares the temperatures of Jupiter and the brown dwarf planet, it cannot be concluded that Jupiter is also a brown dwarf planet. 2 does not follow. Additionally, the premise tells us that this brown dwarf planet was discovered using an infrared telescope, which does not necessarily mean that all such discoveries of dwarf planets are made using infrared telescopes. 3 does not follow.