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Reasoning Ability

Directions (1-3):

1. Answer: A

I. $T > F$ ($T > W \leq H > F$) \rightarrow False

II. $D \leq H$ ($D \leq W \leq H$) \rightarrow True

So Only conclusion I is False

2. Answer: E

I. $D \geq Q$ ($Q > U = E > D$) \rightarrow False

II. $Q < S$ ($Q > U = E > D \geq S$) \rightarrow False

So, both conclusions I and II are false

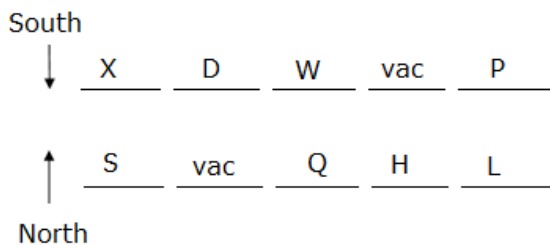
3. Answer: C

I. $J \geq M$ ($M \leq G = V \leq J$) \rightarrow True

II. $E > M$ ($M \leq G = V < E$) \rightarrow True

So neither conclusion I nor II is false

Directions (4-8):



4. Answer: (a)

5. Answer: (d)

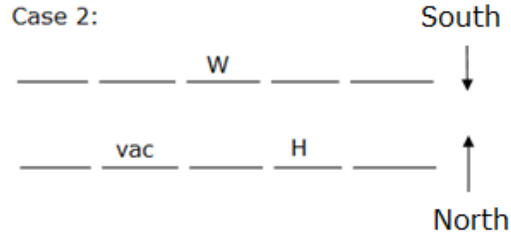
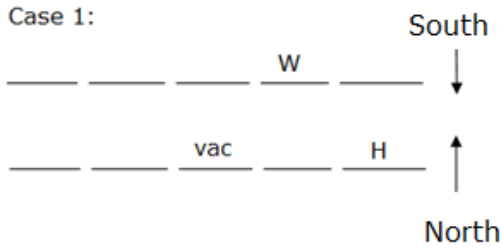
6. Answer: (a)

7. Answer: (d)

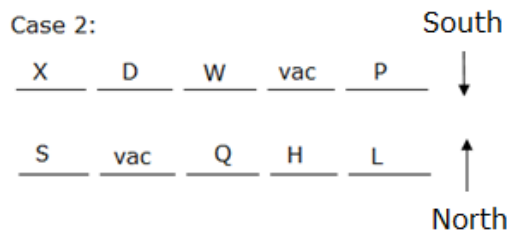
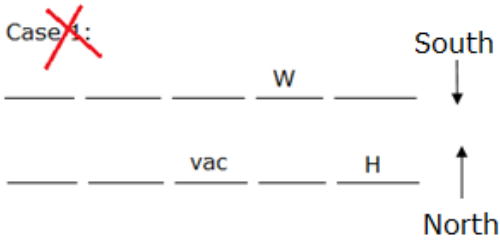
8. Answer: (c)

Explanation.

- Vacant seat is not at any of the extreme end.
- H sits second to the right of vacant seat.
- H faces the one who sits immediate left of W.
- At least two persons sit to the right of vacant seat in both rows.

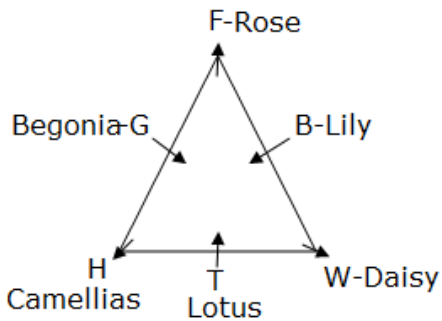


- More than two seats between L and the one who faces X.
- D sits immediate left of X.
- More than one person sits between P and the one who faces S.



Case 1 will be dropped because More than two seats between L and the one who faces X.

Directions (9-13):



9) Answer: (d)

10) Answer: (d)

11) Answer: (d)

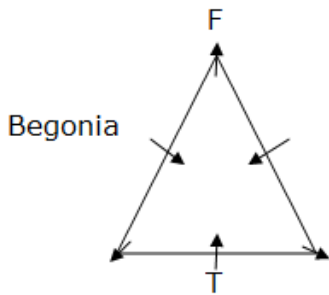
12) Answer: (c)

13) Answer: (e)

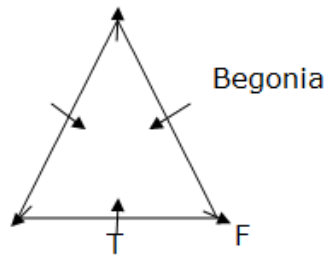
Explanation:

- Only one person sits between T and the one who likes Begonia.
- F sits immediate left of the one who likes Begonia.
- F does not sit middle side of the table.

Case 1:

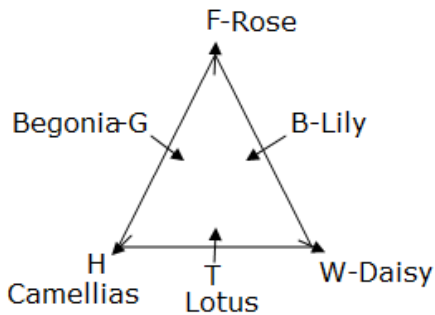


Case 2:

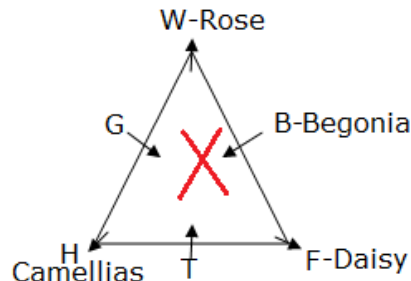


- The one who likes Camellias sits third to the left of B.
- G sits immediate right of the one who likes Camellias.
- The one who likes Daisy sits second to the left of H.
- Only one person sits between the one who likes Rose and the one who likes Daisy.
- W does not like Rose.
- W does not like Camellias.
- B does not like Lotus.

Case 1:



Case 2:

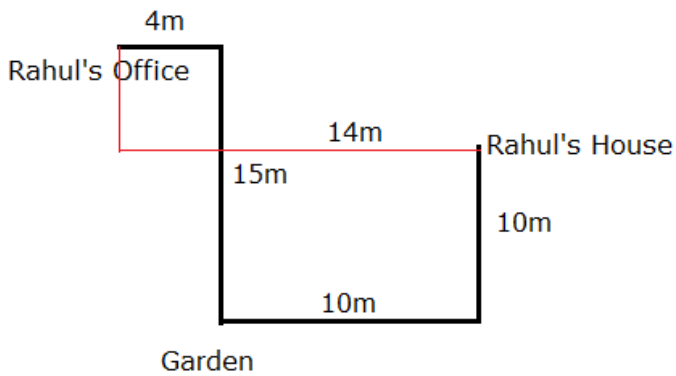


Case 2 will be dropped because W does not like Rose.

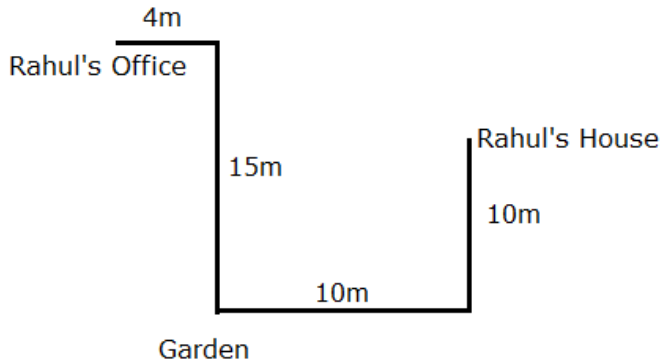
Directions (14-15):

Explanation:

14).Answer: D



15). Answer: A



Directions (16-20):

January	4	P
January	16	D/V
January	23	Q
March	4	R
March	16	D/V
March	23	W
April	4	T
April	16	N
April	23	S

16. Answer: (c)

17. Answer: (c)

18. Answer: (a)

19. Answer: (b)

20. Answer: (b)

- Only one person attends the seminar between N and W.
- N attends the seminar in a month which has less than 31 days but not on odd numbered date.

- As many persons attend the seminar after W is same as many persons attend the seminar before R.
- Two persons attend the seminar between R and T.
- T does not attend the seminar before R.

Case 1:

January	4	R
January	16	
January	23	
March	4	T
March	16	
March	23	
April	4	N
April	16	
April	23	W

Case 2:

January	4	
January	16	
January	23	
March	4	R
March	16	
March	23	W
April	4	T
April	16	N
April	23	

- As many persons attend the seminar before P is same as many persons attend the seminar after S.
- Only one person attends the seminar between P and Q.
- Two persons attend the seminar between D and V.

~~Case 1:~~

January	4	R
January	16	S
January	23	
March	4	T
March	16	
March	23	Q
April	4	N
April	16	P
April	23	W

Case 2:

January	4	P
January	16	D/V
January	23	Q
March	4	R
March	16	D/V
March	23	W
April	4	T
April	16	N
April	23	S

Case 1 will be dropped because two persons attend the seminar between D and V.

Directions (21-25):

21) Answer: B

Explanation:

! V H @ \$ 1 # 4 J Z U 8 9 B T M ^ 5 I D β 1 P 3 X ® 7 E L ∞ * R T 9

22) Answer: A

! @ \$ 1 # 4 U 8 9 ^ 5 I β 1 3 ® 7 E ∞ * 9

Fourth to the right of the element which is Eleventh from the left end is 3

23) Answer: D

24) Answer: B

! V H @ \$ # J Z U B T M ^ I D β P X ® E L ∞ * R T

25) Answer: E

Directions (26-30):

M	TCS	Begonia
L	HCL	Lotus
K	HCL	Lily
N	TCS	Camellias/Foxglove
T	IBM	Daisy
R	TCS	Camellias/Foxglove
P	IBM	Rose
V	IBM	Aster

26. Answer: (b)

27. Answer: (e)

28. Answer: (b)

29. Answer: (d)

30. Answer: (e)

Explanation:

- K works in HCL with only one person, who likes lotus.
- M likes Begonia but does not work in IBM.
- P and V work in same company but not with M.
- T likes Daisy.
- R and N works in same company.

M	TCS	Begonia
L	HCL	Lotus
K	HCL	
N	TCS	
T	IBM	Daisy
R	TCS	
P	IBM	
V	IBM	

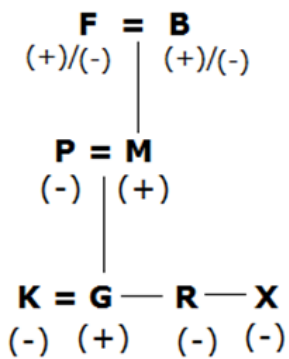
- L and the one who likes Lily works in the same company.
- The one who likes Camellias and the one who likes foxglove works in the same company.
- Neither P nor V likes camellias.
- P does not like Aster.

M	TCS	Begonia
L	HCL	Lotus
K	HCL	Lily
N	TCS	Camellias/Foxglove
T	IBM	Daisy
R	TCS	Camellias/Foxglove
P	IBM	Rose
V	IBM	Aster

Directions (31-32):

31) Answer: A

32) Answer: E



33) Answer: C

Explanation:

Fifth letter of the word Extradition – A

Sixth letter of the word Extradition – D

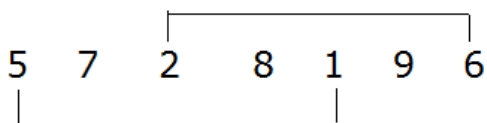
Eighth letter of the word Extradition – T

Eleventhletter of the word Extradition – N

We cannot able to form a meaningful word by using A, D, T and N.

34) Answer: D

Explanation:



35) Answer: A

Explanation:

- Numbers represent - Prime numbers starting from 7 and the alphabet which is preceded and followed by a number is taken by its prime number position from the left and the right end in the English alphabetical series.

J is 17th position from left end, and Q is 17th position from right end.

Numerical Ability

Directions (36 – 40):

Total students in 5 colleges = 5500

The ratio of total number of students studied in college P to that of S = 5: 4

Total number of students studied in college S

= > $(150/100) \times$ The total number of students studied in college T

The ratio of total number of students studied in college S to that of T = 3: 2

The ratio of total students (P: S: T) = 15: 12: 8

Total number of students studied in college P = 1500

15's = 1500

1's = 100

Total number of students studied in college S = 1200

Total number of students studied in college T = 800

The total number of students studied in college Q and R together

= > $5500 - (1500 + 1200 + 800)$

= > $5500 - 3500 = 2000$

The number of students studied in college Q = The total number of students studied in college R – 100

$$R - Q = 100 \rightarrow (1)$$

$$R + Q = 2000 \rightarrow (2)$$

By solving the equation (1) and (2), we get,

$$R = 1050, Q = 950$$

The number of students participated in cultural events from college P

$$= > 1500 \times (20/100) = 300$$

The number of students participated in cultural events from college T

$$= > 800 \times (25/100) = 200$$

The ratio of total number of students participated in cultural events to that of those not participated in any events from college S = 9: 41 (9x, 41x)

$$50's = 1200$$

$$1's = 24$$

Total number of students participated in cultural events from college S

$$= > 24 \times 9 = 216$$

36) Answer: B

Total number of students not participated in any cultural events from college S

$$\Rightarrow 1200 - 216 = 984$$

$$\text{Required \%} = (984/1200) \times 100 = 82 \%$$

37) Answer: D

The total number of students participated in cultural events from college Q

$$\Rightarrow 950 \times (12/100)$$

The total number of students participated in cultural events from college R

$$\Rightarrow 1050 \times (14/100)$$

$$\text{Required ratio} = [950 \times (12/100)] : [1050 \times (14/100)]$$

$$\Rightarrow 38 : 49$$

38) Answer: A

Total number of students studied in college P and S together

$$\Rightarrow 1500 + 1200 = 2700$$

Total number of students studied in college Q and R together

$$\Rightarrow 950 + 1050 = 2000$$

$$\text{Required \%} = (2700/2000) \times 100 = 135 \%$$

39) Answer: D

The total number of students participated in cultural events from college P

$$\Rightarrow 1500 \times (20/100) = 300$$

The ratio of total number of students participated in cultural events to that of those not participated in any events from college S = 9 : 41 (9x, 41x)

$$50\text{'s} = 1200$$

$$1\text{'s} = 24$$

Total number of students participated in cultural events from college S

$$\Rightarrow 24 \times 9 = 216$$

$$\text{Required sum} = 300 + 216 = 516$$

40) Answer: B

The average number of students studied in college P, R and T together

$$\Rightarrow (1500 + 1050 + 800)/3 = 3350/3$$

The average number of students studied in college Q, R and S together

$$\Rightarrow (950 + 1050 + 1200)/3 = 3200/3$$

$$\text{Required difference} = 3350/3 - 3200/3 = 150/3 = 50$$

41) Answer: B

Let, cost price of 1 Kg sugar for the seller = Rs.100

$$\text{Marked price of 1 Kg sugar} = 100 \times 130/100 = \text{Rs.130}$$

$$\text{Selling price of 800 gm sugar} = 130 \times 80/100 = \text{Rs.104}$$

$$\Rightarrow \text{Selling price of 1 gm sugar} = 104/800$$

$$\Rightarrow \text{Selling price of 1000 gm sugar} = 104/800 \times 1000 = \text{Rs.130}$$

$$\text{Profit percent} = (130 - 100)/100 \times 100$$

$$= 30/100 \times 100$$

$$= 30\%$$

42) Answer: A

Let, the fraction be a/b

$$(a + 3)/(b + 2) = 4/5$$

$$\Rightarrow 5a + 15 = 4b + 8$$

$$\Rightarrow 5a - 4b = 8 - 15$$

$$\Rightarrow 5a - 4b = -7 \text{ ----- (i)}$$

And

$$(a - 3)/(b - 3) = 2/5$$

$$\Rightarrow 5a - 15 = 2b - 6$$

$$\Rightarrow 5a - 2b = 15 - 6$$

$$\Rightarrow 5a - 2b = 9 \text{ ----- (ii)}$$

Equation (ii) - Equation (i)

$$5a - 2b - 5a + 4b = 9 + 7$$

$$\Rightarrow 2b = 16$$

$$\Rightarrow b = 8$$

From (i)

$$5a - 4 \times 8 = -7$$

$$\Rightarrow 5a = 32 - 7$$

$$\Rightarrow 5a = 25$$

$$\Rightarrow a = 5$$

$$\text{Fraction} = 5/8$$

$$\text{Reciprocal of the fraction} = 8/5$$

43) Answer: A

$$\text{The area of the equilateral triangle} = 144\sqrt{3} \text{ Sq cm}$$

$$\text{The area of the equilateral triangle} = (\sqrt{3}/4) \cdot a^2$$

$$(\sqrt{3}/4) \cdot a^2 = 144\sqrt{3}$$

$$a^2 = 144 \cdot 4$$

$$\text{Side (a)} = 12 \cdot 2 = 24 \text{ cm}$$

$$\text{The diameter of the circle} = 24 + 4 = 28 \text{ cm}$$

$$\text{Radius (r)} = 14 \text{ cm}$$

$$\text{Area of the circle} = \pi r^2 = (22/7) \cdot 14 \cdot 14 = 616 \text{ Sq cm}$$

44) Answer: D

$$4 \text{ years ago, the ratio of ages of Rajiv and Ganga} = 4:3$$

$$(4x, 3x)$$

$$\text{Present ages of Rajiv and Ganga} = 4x + 4, 3x + 4$$

$$\text{Vaishnavi} = \text{Rajiv} - 8$$

$$\text{Vaishnavi} = \text{Ganga} + 2$$

$$\text{Rajiv} - 8 = \text{Ganga} + 2$$

$$4x + 4 - 8 = 3x + 4 + 2$$

$$\Rightarrow x = 10$$

$$\text{Present age of Rajiv} = 4x + 4 = 44 \text{ years}$$

$$\text{Present age of Ganga} = 3x + 4 = 34 \text{ years}$$

$$\text{The sum of the present age of Rajiv and Ganga} = 44 +$$

$$34 = 78 \text{ years}$$

45) Answer: E

$$\text{The share of P, Q and R,}$$

$$\Rightarrow [8 \cdot 5 + 8 \cdot (5/8) \cdot 7]: [5 \cdot 5 + 10 \cdot 7]: [7 \cdot 5 + 7 \cdot (3/7) \cdot 7]$$

$$\Rightarrow [40 + 35]: [25 + 70]: [35 + 21]$$

$$\Rightarrow 75: 95: 56$$

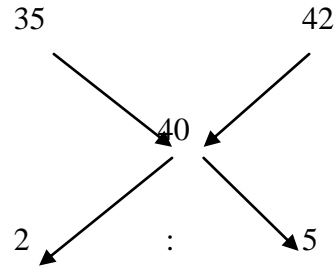
$$226's = 101700$$

$$1's = 450$$

$$\text{The share of R} = 56's = \text{Rs. } 25200$$

46) Answer: C

$$\text{CP of Mixture} = (44/110) \cdot 100 = \text{Rs. } 40$$



$$\Rightarrow 2:5$$

47) Answer: A

$$(3/7) \cdot (Q + R)'s \text{ whole work} = 9$$

$$(Q + R)'s \text{ whole work} = 9 \cdot (7/3) = 21 \text{ days}$$

$$(P + Q + R)'s \text{ whole work} = 12 \text{ days}$$

$$P's \text{ one day work} = (1/12) - (1/21) = 9/(12 \cdot 21) = (1/28)$$

$$P \text{ can complete the work alone in } 28 \text{ days.}$$

$$(1/28) \cdot x = (4/7)$$

$$\Rightarrow x = 16 \text{ days}$$

48) Answer: B

$$\text{In 4 years, total amount} = 66600$$

$$\text{In 6 years, total amount} = 77400$$

$$\text{S.I for 2 years} = 77400 - 66600 = 10800$$

$$\text{S. I for 4 year} = 10800 \cdot 2 = 21600$$

$$\text{Principle} = 66600 - 21600 = \text{Rs. } 45000$$

According to the question,

$$(45000 \cdot 4 \cdot r)/100 = 21600$$

$$\text{Rate of interest (r)} = (21600 \cdot 100)/(45000 \cdot 4) = 12 \%$$

49) Answer: E

$$\text{Total no of students} = 180$$

$$\text{The ratio of boys and girls in a class} = 5:4 (5x, 4x)$$

$$\text{Boys} = 180 \cdot (5/9) = 100, \text{ Girls} = 180 \cdot (4/9) = 80$$

$$44\% \text{ of boys interested in sports} = 100 \cdot 44/100 = 44$$

$$35\% \text{ of girls interested in sports} = 80 * 35 / 100 = 28$$

Total number of students, who are all not interested in sports,

$$=> 180 - (44 + 28) = 180 - 72 = 108$$

$$\text{Required \%} = (108/180) * 100 = 60 \%$$

50) Answer: E

$$\text{Time} = \text{Distance/Speed}$$

$$T = (240 + 300) / [(60 + 75) * (5/18)]$$

$$=> (540 * 18) / (135 * 5)$$

$$=> 14.4 \text{ sec}$$

51) Answer: A

$$(3/11) * (1/3) * (5/7) * (42 * 1331) = ?$$

$$5 * 6 * 121 = ?$$

$$?= 3630$$

52) Answer: D

$$(3/5) * 110 + (5/9) * 567 = ?/4$$

$$66 + 315 = ?/4$$

$$?= 1524$$

53) Answer: E

$$(9/3) + (5/27) + (3/243) + (7/9) = ? - 2/81$$

$$?= (243 + 15 + 1 + 63 + 2) / 81$$

$$?= 324 / 81$$

$$?= 4$$

54) Answer: B

$$7634 + 1764 - 368 - 3721 = ?$$

$$9398 - 4089 = ?$$

$$5309 = ?$$

55) Answer: A

$$38\% \text{ of } 350 + 400\% \text{ of } 16 = x\% \text{ of } 50$$

$$(38/100) * 350 + (400/100) * 16 = (x/100) * 50$$

$$133 + 64 = x/2$$

$$197 * 2 = x$$

$$x = 394$$

56) Answer: C

From statement I,

$$\text{The ratio of present age of sonu and her brother} = 4: 5$$

This is not efficient to answer the question.

From statement II,

$$\text{The difference between the ages of sonu and her brother} = 4$$

This is not efficient to answer the question.

From statements I and II,

$$5x - 4x = 4$$

$$=> x = 4$$

Then,

$$\text{The present age of sonu} = 4 * 4 = 16 \text{ years}$$

Hence, both the statements are necessary to answer the given questions.

57) Answer: C

$$\text{The curved surface area of cone} = \pi r l$$

From statement I,

$$\text{The ratio of the radius to the height} = 7: 6$$

This is not efficient to answer the question.

From statement II,

$$\text{The slanting height of the cone is } \sqrt{85} \text{ cm.}$$

This is not efficient to answer the question.

From both statements,

$$\text{Slanting height } (\sqrt{85}) = \sqrt{((7x)^2 + (6x)^2)}$$

$$\Rightarrow \sqrt{85} = \sqrt{85}x$$

$$\Rightarrow x = 1$$

$$\text{Then, height} = 6 * 1 = 6$$

$$\text{Radius} = 7 * 1 = 7$$

$$\text{The curved surface area of cone} = \pi r l$$

$$\Rightarrow 22/7 * 6 * \sqrt{85} = 173.85 \text{ cm}^2$$

Hence, both the statements are necessary to answer the given questions.

58) Answer: E

From both statements we can only find the rate of interest but time period is unknown.

Hence, both the statements are not necessary to answer the given questions.

59) Answer: E

From both statements we can only find the ratio of profit but we can't find the profit amount.

Hence, both the statements are not necessary to answer the given questions.

60) Answer: A

Distance = speed * time

From statement I,

$$(400 + 100) = 500 = 50 * 5/18 * \text{time taken by train B}$$

Time taken by train B = 36 minutes

From statement II,

$$\text{Length of train B} = 500/5 * 1 = 100 \text{ m}$$

From that we can't answer the given question.

So from I only we can find the Time taken by the train B to cross 400 m platform.

61) Answer: C

$$(?)^2 - 64 = 391 \div 23 + 928 \div 29 - 192 \div 3$$

$$?^2 - 64 = 17 + 32 - 64$$

$$? = 7$$

62) Answer: A

$$19 * 6 + 89 - 215 + ? = 16 * \sqrt{225}$$

$$114 + 89 - 215 + ? = 240$$

$$? = 252$$

63) Answer: B

$$32\% \text{ of } 150 * 12.5\% \text{ of } 184 = ?\% \text{ of } 270 + 564$$

$$48 * 23 = ?\% \text{ of } 270 + 564$$

$$540 = ?\% \text{ of } 270$$

$$? = 200$$

64) Answer: B

$$144 * 36 \div 1296 = 4^{(?-5)}$$

$$4 = 4^{(?-5)}$$

$$1 = ? - 5$$

$$? = 6$$

65) Answer: B

$$\sqrt{361} * 4 - \sqrt{49} * 6 - 189 = ?^2 - 159$$

$$19 * 4 - 7 * 6 - 189 = ?^2 - 159$$

$$76 - 42 - 189 = ?^2 - 159$$

$$? = 2$$

66) Answer: E

$$2x^2 - 7x - 15 = 0$$

$$2x^2 - 10x + 3x - 15 = 0$$

$$2x(x - 5) + 3(x - 5) = 0$$

$$(2x + 3)(x - 5) = 0$$

$$x = -3/2, 5$$

$$y^2 - 8y + 16 = 0$$

$$y^2 - 4y - 4y + 16 = 0$$

$$y(y - 4) - 4(y - 4) = 0$$

$$(y - 4)(y - 4) = 0$$

$$y = 4, 4$$

Relationship cannot be established

67) Answer: A

$$x^2 - 11x + 24 = 0$$

$$x^2 - 8x - 3x + 24 = 0$$

$$x(x - 8) - 3(x - 8) = 0$$

$$(x - 3)(x - 8) = 0$$

$$x = 3, 8$$

$$3y^2 - 8y + 5 = 0$$

$$3y^2 - 3y - 5y + 5 = 0$$

$$3y(y - 1) - 5(y - 1) = 0$$

$$(3y - 5)(y - 1) = 0$$

$$y = 5/3, 1$$

Hence, $x > y$

68) Answer: D

$$x^2 + 19x + 90 = 0$$

$$x^2 + 10x + 9x + 90 = 0$$

$$x(x + 10) + 9(x + 10) = 0$$

$$(x + 9)(x + 10) = 0$$

$$x = -9, -10$$

$$y^2 + 17y + 72 = 0$$

$$y^2 + 9y + 8y + 72 = 0$$

$$y(y + 9) + 8(y + 9) = 0$$

$$(y + 9)(y + 8) = 0$$

$$y = -9, -8$$

Hence, $x \leq y$

69) Answer: E

$$x^2 - 21x + 54 = 0$$

$$x^2 - 18x - 3x + 54 = 0$$

$$x(x - 3) - 18(x - 3) = 0$$

$$(x - 18)(x - 3) = 0$$

$$X = 18, 3$$

$$y^2 - 14y + 40 = 0$$

$$y^2 - 10y - 4y + 40 = 0$$

$$y(y - 10) - 4(y - 10) = 0$$

$$(y - 4)(y - 10) = 0$$

$$y = 4, 10$$

Relationship cannot be determined

70) Answer: A

$$3x^2 - 19x - 14 = 0$$

$$3x^2 - 21x + 2x - 14 = 0$$

$$3x(x - 7) + 2(x - 7) = 0$$

$$(3x + 2)(x - 7) = 0$$

$$x = -2/3, 7 = -0.667, 7$$

$$2y^2 + 5y + 3 = 0$$

$$2y^2 + 2y + 3y + 3 = 0$$

$$2y(y + 1) + 3(y + 1) = 0$$

$$(2y + 3)(y + 1) = 0$$

$$y = -3/2, -1 = -1.5, -1$$

Hence, $x > y$

English Language

71). Answer: C

It is clearly mentioned in the passage as 'recurring forest fire will lead to degradation of the ecosystem in forest areas, especially grasslands, of the State'.

72). Answer: E

It is clearly mentioned in the passage as " Since dried materials are needed as fuel, grasslands, scrub jungle, dry deciduous and moist deciduous forests are more susceptible to fire," says K.A. Sreejith, scientist, Forest Ecology, KFRI"

73). Answer: A

It is clearly mentioned in the passage as ' In natural conditions, when the fuel load is less, the fire will restrict as ground fire but additional fuel material, such as dry leaves, branches and fallen trees, may lead to surface fire."

74). Answer: B

Meaning of the word secure is postpone for future use or attach (something) firmly so that it cannot be moved or lost.

75). Answer: B

Meaning of the word defer is adjourn,/ put back,/ reschedule

76). Answer: B

Replace "of" with "for". The phrase 'account for' is used in the meaning for that part or proportion consists of that thing, or is used or produced by it or responsible

77). Answer: D

Replace “checked “ with “check” for infinitive verb.

78). Answer: A

Replace ‘objective’ with ‘objectives’ for, ‘one of the’ should be followed by a plural nouns.

79). Answer: A

Replace ‘An’ with ‘a’ as an is used before vowel sound words only

80). Answer: D

Replace ‘is’ with ‘was’ as the sentence is based on past event.

81). Answer: A

Replace ‘have’ with ‘has’ as the subject ‘a city consumer forum’- is third person singular.

82). Answer: C

Replace ‘decide’ with ‘decided’ as the sentence is based on past event.

83). Answer: C

84). Answer: A

85). Answer: B

86). Answer: D

87). Answer : B

88). Answer: B

89). Answer: C

90). Answer: D

91). Answer: A

92). Answer: B

93). Answer: B

94). Answer: D

95). Answer: C

96). Answer: E

97). Answer: D

98). Answer: C

99). Answer: C

100). Answer: B

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