Solutions

- 1. Ans. C.
- 1. Conference on Hospitality was held in Hyderabad on Friday.
- 2. Only one conference was held between conference on hospitality and Finance.
- 3. The conference held on Monday was held in Delhi.
- 4. Conference on Management was held immediately after HR but immediately before Banking.
- 5. Only one Conference was held between conferences on Banking and the conference held in Mumbai.
- 6. The conference on HR was not held in Mumbai.
- 7. Conference in Pune was held immediately before conference in Indore.
- 8. Conference on Management was not held in Indore.
- 9. Conference on Real Estate was not held on Monday. Conference in Chennai was not held after conference in Mumbai.

Day	Conference	City	
Monday	Marketing	Delhi	
Tuesday	Hr	Chennai	
Wednesday	Management	Pune	
Thursday	Banking	Indore	
Friday	Hospitality	Hyderabad	
Saturday	Real state	Mumbai	
Sunday	Finance	Bhopal	

- 2. Ans. E.
- 1. Conference on Hospitality was held in Hyderabad on Friday.
- 2. Only one conference was held between conference on hospitality and Finance.
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- 5. Only one Conference was held between conferences on Banking and the conference held in Mumbai
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- 7. Conference in Pune was held immediately before conference in Indore.
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9.Conference on Real Estate was not held on Monday. Conference in Chennai was not held after conference in Mumbai.

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- 4. Ans. B.
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Day	Conference	City	
Monday	Marketing	Delhi	
Tuesday	Hr	Chennai	
Wednesday	Management	Pune	
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- 5. Ans. D.
- 1. Conference on Hospitality was held in Hyderabad on Friday.
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- 5. Only one Conference was held between conferences on Banking and the conference held in Mumbai.
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Day	Conference	City	
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6. Ans. C.

 $19^{th}\, from \ the \ right \ is \ W, \ and \ 7^{th} \ to \ the \ right \ of \ W \ is \ Z$

Hence option C is correct

7. Ans. B.

In all others Ist character + 3 = second character and

First character -2 = third character Hence option B is correct

8. Ans. E.

@ D F, # R N, @ W P and \$ H U Hence option E is correct

9. Ans. C.

F 3 # and B 7 \$ Hence option C is correct

10. Ans. A.

8 @ D



Similarly for # N 1 , W δ J, 5 \star 6 and 7 H U Hence option A is correct

11. Ans. B.

From the given conditions, we can conclude:

R S P T X O W

After arranging in alphabetical order,

X W T S R Q P 0 0 0 0 0 0 0 0 R S P T X Q W

Hence, only Q's position will remain unchanged.

12. Ans. A.

From the given conditions, we can conclude:

Facing North

RSPTXQW

Hence 4 people sit to the right of P.

13. Ans. E.

From the given conditions, we can conclude:

Facing North

RSPTXQW

Only W is sitting on the extreme ends of the row. Hence, W does not belong to group formed by rest of the other people.

14. Ans. D.

From the given conditions, we can conclude:

Facing North

RSPTXOW

Hence R and P are the immediate neighbours of S.

15. Ans. B.

From the given conditions, we can conclude:

Facing North

RSPTXOW

Position can be determined as $4-2 = 2^{nd}$ from right end.

Hence Q is the person who sits second to the right of the fourth person from the right end of the line.

16. Ans. E.

 $G = D \le C = B \le A$

F = E > D > H > I

 $G \leq A$ (True)

F > I (True)

17. Ans. B.

 $M = G \ge D \ge F$

I. N < F (There is no relation between N and F.)

II. $M \ge F$ (True)

18. Ans. A.

W > E = D > J = Q

I. W > Q (True)

II. K > C (Not true)

19. Ans. A.

A > B > G > E > F

So, conclusion I follows A > F

So, conclusion II does not follows as there is no relation between B and D $\,$

Only conclusion I follows

20. Ans. A.

 $Z \le X < O = R \le E \le C = O$

Q > Z (True)

Z = Q (False)

Only I follows.

21. Ans. E.

- 1. D sits fourth to left of P. P sits at one of the extreme ends of the line.
- 2. E sits second to left of R. R is not an immediate neighbor of D. Neither R nor F sits at the extreme end of the line.
- 3. H sits to the immediate left of Q.
- 4. G faces south direction.
- 5. F faces opposite direction to G.
- 6. Both the immediate neighbours of D face North.
- 7. Both the immediate neighbors of F face

North. Immediate neighbours of G face opposite directions

South	South	South	North	North	North	North	North
P	R	G	E	D	F	Н	Q

22. Ans. C.

- 1. D sits fourth to left of P. P sits at one of the extreme ends of the line.
- 2. E sits second to left of R. R is not an immediate neighbor of D. Neither R nor F sits at the extreme end of the line.
- 3. H sits to the immediate left of Q.
- 4. G faces south direction.
- 5. F faces opposite direction to G.
- 6. Both the immediate neighbours of D face North.
- 7. Both the immediate neighbors of F face

North. Immediate neighbours of G face opposite directions

South	South	South	North	North	North	North	North
P	R	G	E	D	F	Н	0

23. Ans. C.

- 1. D sits fourth to left of P. P sits at one of the extreme ends of the line.
- 2. E sits second to left of R. R is not an immediate neighbor of D. Neither R nor F sits at the extreme end of the line.
- 3. H sits to the immediate left of Q.
- 4. G faces south direction.

- 5. F faces opposite direction to G.
- 6. Both the immediate neighbours of D face North.
- 7. Both the immediate neighbors of F face

North. Immediate neighbours of G face opposite directions

South	South	South	North	North	North	North	North
P	R	G	E	D	F	H	Q

- 24. Ans. B.
- 1. D sits fourth to left of P. P sits at one of the extreme ends of the line.
- 2. E sits second to left of R. R is not an immediate neighbor of D. Neither R nor F sits at the extreme end of the line.
- 3. H sits to the immediate left of O.
- 4. G faces south direction.
- 5. F faces opposite direction to G.
- 6. Both the immediate neighbours of D face North.
- 7. Both the immediate neighbors of F face

North. Immediate neighbours of G face opposite directions

South	South	South	North	North	North	North	North		
P	R	G	E	D	F	Н	Q		

- 25. Ans. A.
- 1. D sits fourth to left of P. P sits at one of the extreme ends of the line.
- 2. E sits second to left of R. R is not an immediate neighbor of D. Neither R nor F sits at the extreme end of the line.
- 3. H sits to the immediate left of Q.
- 4. G faces south direction.
- 5. F faces opposite direction to G.
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North. Immediate neighbours of G face opposite directions

directions										
South	South	South	North	North	North	North	North			
P	R	G	F	D	F	н	0			

- 26. Ans. E.
- 428 → 427
- $682 \to 681$
- 391 → 392
- $745 \rightarrow 746$
- $534 \rightarrow 533$

Required difference \rightarrow 427 - 392 = 35

- 27. Ans. A.
- $428 \rightarrow 248$
- $391 \to 931$
- $745 \rightarrow 475$
- $682 \to 862$

$$534 \rightarrow 354$$

Required difference \rightarrow 931 - 862 = 69

- 28. Ans. D.
- $428 \to 418$
- $391 \to 381$
- $745 \rightarrow 735$
- 682 → 672
- $534 \rightarrow 524$

Number divisible by 3

$$\frac{381}{3} = 127; \frac{735}{3} = 245; \frac{672}{3} = 224$$

29. Ans. C.

745 > 682 > 534 > 428 > 391

Required sum = 4+2+8 = 14

30. Ans. B.

Lower number = 391

$$\frac{9}{3} = 3$$

- 31. Ans. E.
- I. Jason > (Shane and Joseph)
- II. Joseph > Shaun

So, from both statements, Jason is oldest among all.

So, data in both statements I and II together are necessary to answer the question.

- 32. Ans. D.
- I. I happy today = ke ne que ... (i)

Today happy day = kejoi ne ... (ii)

From (i) and (ii), the code of 'happy' = ke or ne

II. I play = que pa

So, from both statements, the code of happy cannot exactly determined.

So, the data even in both statements I and II together are not sufficient to answer the question.

33. Ans. B.

Color of white snow is 'white'.

From II 'white' is called 'orange'

So, the white snow is 'orange'

So, data in statement II alone are sufficient to answer the question.

34. Ans. E.

From I and II: D > N > M > P > K.

35. Ans. D.

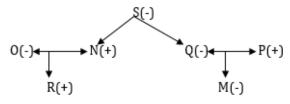
From I, we have: R > Q, R > T, S > R i.e. S > R > Q > T or S > R > T > Q.

From II, S is not the heaviest. So, P is the heaviest. Thus, we have: P > S > R > Q > T or P > S > R > T > Q.

Hence, either T or Q is the lightest.

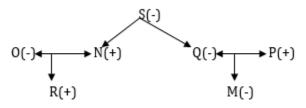
36. Ans. C.

Q is sister of R's grandmother's only son. Q must be S's daughter. Since N and P are not blood relatives and O is the sister in law of P so Q must be P's wife and N must be O's husband. M must be Q's daughter and since S has only one granddaughter so R must be N's Son.

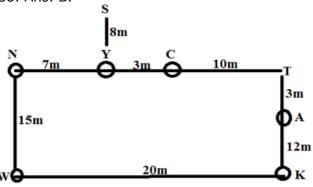


37. Ans. D.

Q is sister of R's grandmother's only son. Q must be S's daughter. Since N and P are not blood relatives and O is the sister in law of P so Q must be P's wife and N must be O's husband. M must be Q's daughter and since S has only one granddaughter so R must be N's Son.

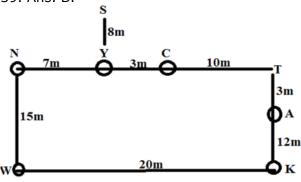


38. Ans. B.

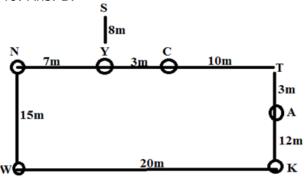


N is at 25m to the north-west direction of K.

39. Ans. B.



40. Ans. B.



41. Ans. C.

Let the speed of stream be x km/hrThen,

Speed of upstream = $x \times 600/100 = 18$

 \Rightarrow x = 3km/hr

Speed of boat in still water = 18 + 3 = 21 km/hr Distance covered in 3 hours in downstream = $(21 + 3) \times 3 = 72$ km

42. Ans. A.

$$(A + B)(A - B) = 252$$

$$\Rightarrow$$
 42 × (A-B) = 252 [A + B = 42 given]

$$\Rightarrow$$
 (A-B) = 6 ...(i)

And A + B = 42...(ii)

Solve (i) and (ii), we get

B = 18

43. Ans. D.

Let the time taken by A and B be 5x days and 3x days respectively.

 \Rightarrow 5x = 40 days

 \Rightarrow x = 8 days

B's time = $3 \times 8 = 24$ days

Time taken by both together to complete the work = (40 * 24)/(40+24) = 15 days

44. Ans. B.

Speed of train =72 km/hr= 30 m/s Length of train = $18 \times 20 = 360$ m Length of (train + platform) = $20 \times 33 = 660$ m \therefore length of platform = 660 m - 360 m = 300 m

45. Ans. E.

radius = 66* 7/(2*22) = 21/2Side of square = 21/4Area of square= $(21/4)^2 = 441/16 = 28$ sq. cm. (approx.)

46. Ans. D.

Let total employees in company be 100x
ATQ, (25/100)*100X= 90

⇒ Total employees in company = 100 X =
360 Employees working in HR department =
(2/9) × 360 = 80

Employees working in Sales department =
(125/100)× 80 = 100 Remaining employees = 360
- 90 - 80 - 100 = 90

Employees working in Security department =
(4/9) × 90 = 40

Employees working in Housing department =
(5/9)× 90 = 50

Sales	Finance	HR	Security	Housing	Total
100	90	80	40	50	360

 $\{(80-40)/40\}*100 = 100\%$

47. Ans. C.

Let total employees in company be 100x ATQ, (25/100)*100X=90 \Rightarrow Total employees in company = 100 X = 360 Employees working in HR department = $(2/9) \times 360 = 80$ Employees working in Sales department = $(125/100)\times 80 = 100$ Remaining employees = 360 - 90 - 80 - 100 = 90 Employees working in Security department = $(4/9) \times 90 = 40$ Employees working in Housing department = $(5/9)\times 90 = 50$

Sales	Finance	HR	Security	Housing	Total
100	90	80	40	50	360

(100 + 90 + 50)/3 = 240/3 = 80

48. Ans. A.

Let total employees in company be 100x ATQ, (25/100)*100X=90

 \Rightarrow Total employees in company = 100 X = 360 Employees working in HR department = $(2/9) \times 360 = 80$ Employees working in Sales department = $(125/100) \times 80 = 100$ Remaining employees = 360 -90 - 80 - 100 = 90 Employees working in Security department = $(4/9) \times 90 = 40$ Employees working in Housing department = $(5/9) \times 90 = 50$

Sales	Finance	HR	Security	Housing	Total
100	90	80	40	50	360

(50-40) = 10

49. Ans. E.

Let total employees in company be 100x ATQ, (25/100)*100X=90 \Rightarrow Total employees in company = 100 X = 360 Employees working in HR department = $(2/9) \times 360 = 80$ Employees working in Sales department = $(125/100)\times 80 = 100 \text{ Remaining employees} = 360 - 90 - 80 - 100 = 90$ Employees working in Security department = $(4/9) \times 90 = 40$ Employees working in Housing department = $(5/9)\times 90 = 50$

Sales	Finance	HR	Security	Housing	Total
100	90	80	40	50	360

40-(40/100)*40 = 24

50. Ans. A.

Let total employees in company be 100x ATQ, (25/100)*100X=90 \Rightarrow Total employees in company = 100 X = 360 Employees working in HR department = $(2/9) \times 360 = 80$ Employees working in Sales department = $(125/100) \times 80 = 100$ Remaining employees = 360 - 90 - 80 - 100 = 90 Employees working in Security department = $(4/9) \times 90 = 40$ Employees working in Housing department = $(5/9) \times 90 = 50$

Sales	Finance	HR	Security	Housing	Total
100	90	80	40	50	360

 $80 \times (2/5) = 32$

51. Ans. C.

Marks scored by Sandy in English and Maths together = 60 + 60 = 120Marks scored by Aditya and Neeraj in English together = 75 + 85 = 160Required % = $120/160 \times 100 = 75\%$

52. Ans. A.

Required ratio = (60 + 75 + 55 + 60)/(80 + 60 + 90 + 65) = 5:6

53. Ans. D.

Total marks scored by Paul = 65 + 60 + 80 + 65 = 270

Total marks scored by Neeraj = 85 + 55 + 95 + 85 = 320

Required difference = 320 - 270 = 50

54. Ans. E.

Required average = (75 + 75 + 60)/3 = 70

55. Ans. B.

Required % = (60+60+65+60)/4 = 61.25%

56. Ans. B.

MP of article = $(1020/80) \times 100 = Rs. 1275$ Selling price = 1275 - 199 = Rs. 1076

57. Ans. C.

Sum of present age of A, B and C

 $= 98 - 4 \times 3$

= 98 - 12

= 86 vr.

Present age of C = 86 - (32 + 23) = 31 yr.Age of C four years hence = 31 + 4 = 35 yr.

58. Ans. B.

Profit share ratio of A B
12000 × x 16000 × 9
x : 12

ATQ,

x 9000

 $\overline{12} = \overline{12000}$ $\Rightarrow x = 9 \text{ months.}$

59. Ans. E.

Let, total quantity = 100ℓ Quantity of milk = 60ℓ And quantity of water = 40ℓ ATQ, $\frac{40}{100} = \frac{60}{100+x}$

 $2 (100 + x) = 5 \times 60$ 200 + 2x = 300 2x = 100 $x = 50 \ell$

Water added in % = $\frac{50}{100}$ × 100 = 50%

60. Ans. E.

Let the sum be Rs. P.

Difference = $P(1+0.1)^2-P\times(1.16)$

 \Rightarrow P = Rs. 4500

61. Ans. D.

 $(\sqrt{1443}) \div 19.01 + 328 = ? \times 22$

 $\Rightarrow 38/19 + 328 = ? \times 22$

? = (330/22) = 15

62. Ans. B.

30% of 880 = ? + 111

 \Rightarrow (30*880)/100 =? +111

? = 264 - 111 = 153

63. Ans. A.

 $(?)^2 = 400-256 = 144$

(?) = 12

64. Ans. E.

12 +? = 256

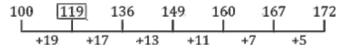
?= 244

65. Ans. D.

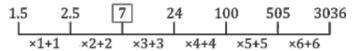
(75/100)*? = 324

?= 432

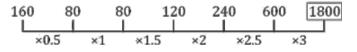
66. Ans. D.



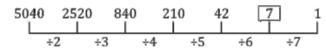
67. Ans. B.



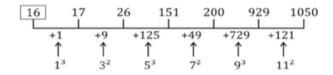
68. Ans. D.



69. Ans. A.



70. Ans. C.



$$?^2 = 49$$

$$? = (5/2)*(80 + 120) = 500$$

$$? = (121 + 36 - 37) = 120$$

$$? = 360/(72-27) = 8$$

$$? = (15+21)^{(1/2)} = 6$$

$$? = 128 - 64 = 64$$

$$? = 24+6 = 30$$

?=
$$(90+310)^{(1/2)} = 20$$

$$? = {(18*8) - (36*3)}/2 = 18$$