

## BOOKS



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## **Solutions**

## Solutions (1-5):

D lives just above B. Two persons live between D and A. Six persons live between A and G.

Case 1	Case 2	Case 3	Case 4
D	A	G	G
В			
А	D		
	В	D	
		В	
	G	А	А
G			D
			В

The number of floors between G and E is same as in between E and F, who lives on the bottom most floor. Either sixteen or seventeen floors are there in the building. E and F live below A. This will eliminate Case 3 and Case 4. Not more than three floors are above D.

Case 1	Case 2
D	А
В	
А	D
	В
	G
G	
	E
Е	
	F
F	

adda 241

Not more than one person lives between C and E. The number of floors between C and H is thrice the number of floors between G and C. This will eliminate case 1. E lives above H but below C. So, the final arrangement is: EPFO SSA 2019 PRIME

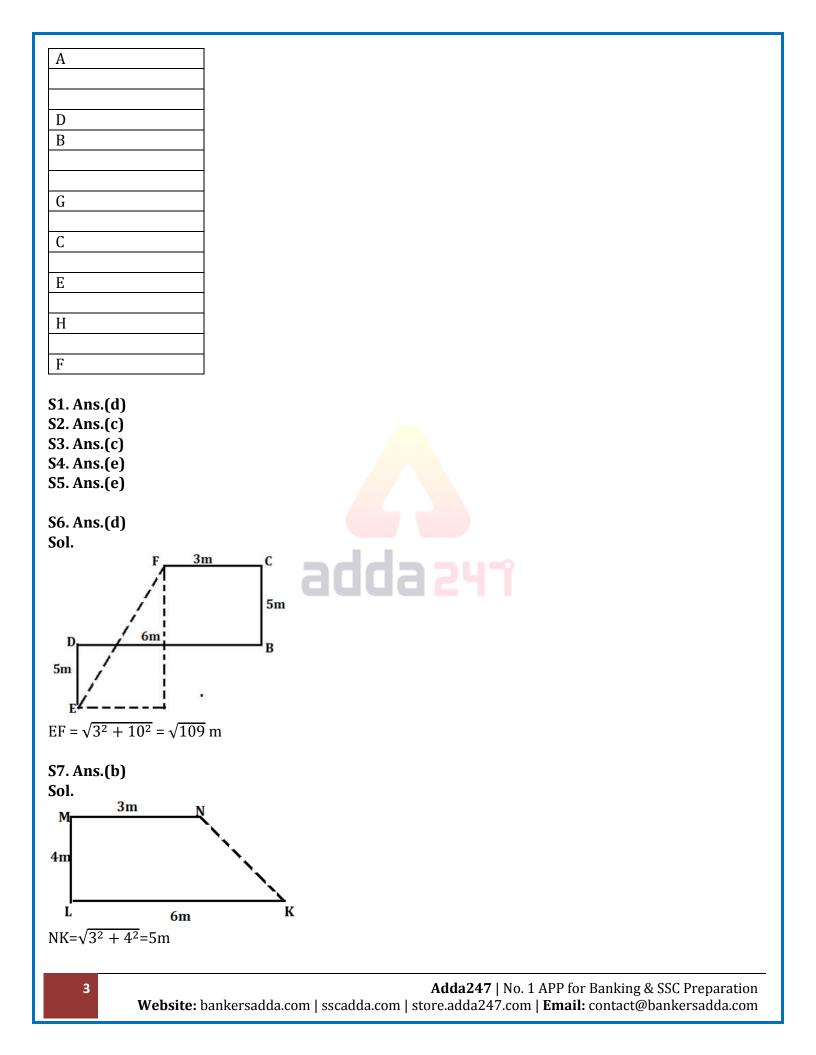
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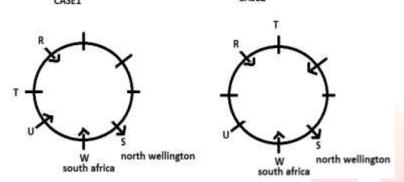
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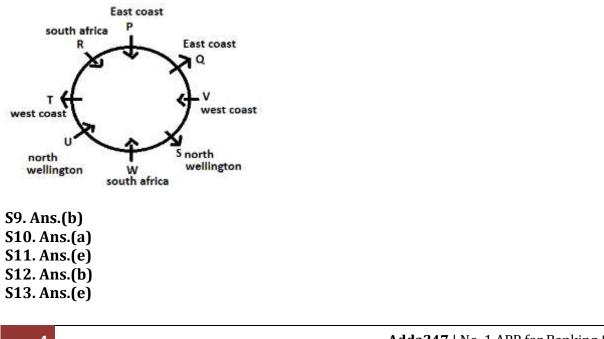
S8. Ans.(a) Sol. 4m H

#### Solutions (9-13):

R sits third to the left of W, who belongs to South Africa and both are facing the same Solutions. R is an immediate neighbour of T. U sits second to the right of R.S is not facing the centre and belongs to North Wellington. The immediate neighbours of T are facing the centre. S and U are immediate neighbours of W. CASE1 CASE2



T sits fourth to the left of V and both are facing opposite Solutions but they are from same place. So, case2 gets eliminated. R and Q are not facing the same Solutions. The one who is on the immediate left of U is not facing the centre. The persons who belong to East Coast sit adjacent to each other, but face opposite Solutions. The persons who belong to West Coast sit opposite to each other. One of the person who belongs to South Africa is an immediate neighbour of the persons who belongs to North Wellington. V sits on the immediate right of Q, who belongs to East Coast.



4

## Solutions (14-17):

In this new pattern coding decoding each letter, except letters having place value(alphatical series) as multiple of 5 , is assigned a number from 5-10 So,A-5 B-6, C-7, D-8, F-9, G-10, H-5,I-6, K-7, L-8, M-9, N-10, P-5, Q-6, R-7, S-8, U-9, V-10, W-5, X-6, Z-7.

Each alphabet with place value as multiple of 5 is assigned a different symbol as-£ , $\beta$  , $\infty$ ,  $\Omega$ ,  $\mu$ . So, the symbols are – E- £, J-  $\beta$ ,O - $\mu$  ,T - $\infty$ , Y - $\Omega$ .

#### S14. Ans.(c)

**Sol.** third -  $\infty$ 5678 letter -  $8 \pounds \infty \infty \pounds 7$ 

#### S15. Ans.(a)

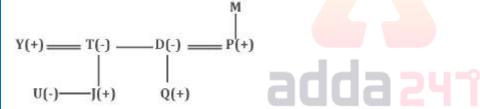
**Sol.** exam - \*65\* one - £10µ level- 8£10£8

#### S16. Ans.(d)

**Sol.** create -  $77£5\infty \pounds$  system- $8\Omega \otimes 20\%$ 

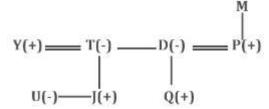
S17. Ans.(b) Sol. journey-  $\beta\mu$ 9710£ $\Omega$  about - \* $6\mu$ 9\* Solutions (18-20):

#### S18. Ans.(c) Sol.

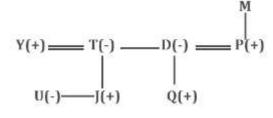


## S19. Ans.(d)

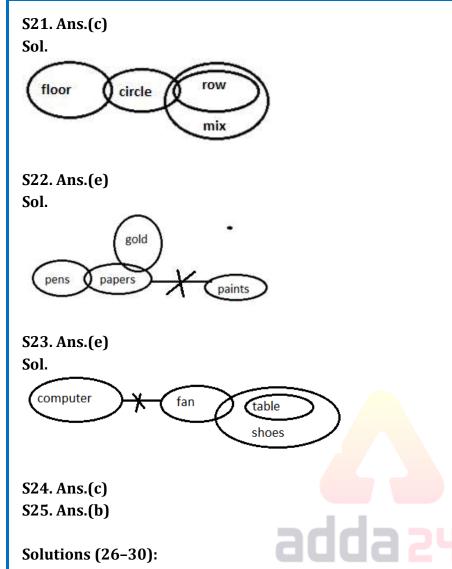
Sol.



#### S20. Ans.(b) Sol.



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P, who watches breaking bad, is neither a surfer nor a general manager, whereas Q is a Boxer and does not watch Simpsons or prison break. One of them is a Gymnast and watches Ninja warrior. The person who watches Simpsons is a renowned dentist. V does not watch Orphan black. Q watches Tom and jerry. T and U watch prison break and ninja warrior respectively. S and R watch Simpsons and the ultimate fighter respectively.

Persons	Profession	Tv shows
Р	Surfer/general manager	Breaking bad
Q	Boxer	Tom and jerry
R		Ultimate fighter
S	Dentist	Simpson
Т		Prison break
U	Gymnast	Ninja warrior
V		Orphan black
Z		

The person who is a cyclist always watches orphan black. One who watches Impractical jokers is an accountant. The one who watches the ultimate fighter is neither a surfer nor an Inspector.

Persons	Profession	Tv shows
Р	Inspector	Breaking bad
Q	Boxer	Tom and jerry
R	General	Ultimate
	manager	fighter
S	Dentist	Simpson
Т	Surfer	Prison break
U	Gymnast	Ninja warrior
V	Accountant	Impractical
		jokers
Z	Cyclist	Orphan black

S26. Ans.(b)

S27. Ans.(c)

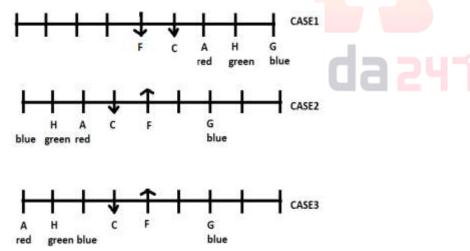
S28. Ans.(a)

S29. Ans.(b)

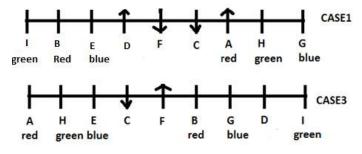
S30. Ans.(e)

#### Solutions (31-35):

F sits exactly in middle of the row. H is 3<sup>rd</sup> to the left of F and likes green. One of the neighbor of H is A, who likes red. G is 3<sup>rd</sup> to the left of C and likes blue. B likes red. One person sit between H and C, who faces south.



The number of persons sitting between E and B is same as between B and I. I do not like blue or red. So, case2 gets eliminated. More than three persons sit between H and I. D is one of the persons and does not like same color as H. B likes red.



All the persons who likes blue face north except the one sitting 2<sup>nd</sup> to the right of F. D cannot like blue and both F and C face south. This will eliminate case 1. Now, H and I face opposite Solutions. All the persons who likes red face north. So the final arrangement will be-

Е C green blue green blue red blue red red green S31. Ans.(c) S32. Ans.(e) S33. Ans.(c) S34. Ans.(d) S35. Ans.(d) S36. Ans.(d) Sol.  $\Rightarrow 35\% \text{ of } 180 + 18^2 = (27)^{\frac{5}{3}} + ?^2$  $\Rightarrow 63 + 324 = 243 + ?^{2}$  $\Rightarrow 387 - 243 = ?^2$  $\Rightarrow$   $?^2 = 144$  $\Rightarrow$  ? = 12 addazyj \$37. Ans.(a) Sol.  $\frac{323}{357} \times 441 - 15 \times 21 = ?$  $\Rightarrow \frac{19 \times 17}{17 \times 21} \times 441 - 15 \times 21 =?$  $\Rightarrow$  ? = 19 × 21 - 15 × 21 = 4 × 21 = 84 S38. Ans.(c) Sol.  $7\frac{4}{5} - 3\frac{2}{3} + 4\frac{8}{15} = \frac{234}{2}$  $8 + \frac{12 - 10 + 8}{15} = \frac{234}{2}$  $8 + \frac{2}{3} = \frac{234}{2}$  $\frac{26}{3} = \frac{234}{2}$  $\Rightarrow$  ? = 27

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S39. Ans.(e) Sol.  $?^{\frac{2}{3}} = 64\% \text{ of } 150 + 7 \times 3 - 9^{2}$  $?^{\frac{2}{3}} = 96 + 21 - 81$  $?^{\frac{2}{3}} = 36$  $\Rightarrow ? = 36^{\frac{3}{2}} = 216$ 

## S40. Ans.(c)

Sol. ?× 4 - 40<sup>2</sup> = 14<sup>2</sup> - 36 × 44 ?× 4 = 196 + 40<sup>2</sup> - (40 - 4) × (40 + 4) ?× 4 = 196 + 40<sup>2</sup> - 40<sup>2</sup> + 4<sup>2</sup> = 212 ?=  $\frac{212}{4}$  = 53

S41. Ans.(d)

**Sol.** Scale II officers in bank 'C' =  $\frac{24}{100} \times 9000 - 900$ = 2160 - 900 = 1260 Scale II officers in bank 'A' =  $\frac{15}{100} \times 9000 - 450 = 900$ Required % =  $\frac{1260 - 900}{900} \times 100$ =  $\frac{360}{900} \times 100 = 40\%$ 



## S42. Ans.(c)

**Sol.** Scale I officer in bank 'B' and 'E' together = 600 + 750 = 1350Scale II officer in bank 'B'  $= \frac{18}{100} \times 9000 - 600$ = 1620 - 600 = 1020Required ratio  $= \frac{1350}{1020} = \frac{45}{34}$ 

#### S43. Ans.(b)

Sol. Female scale II officer in bank 'D'  $= \frac{55}{100} \left[ \frac{16}{100} \times 9000 - 800 \right]$   $= \frac{55}{100} [1440 - 800]$   $= \frac{55}{100} [640]$  = 352

## S44. Ans.(e)

**Sol.** Total number of scale I officer in all bank together = 450 + 600 + 900 + 800 + 750 = 3500Total no. of scale II officer in all bank together = 9000 - 3500 = 5500Required difference = 5500 - 3500 = 2000

## S45. Ans.(a)

Sol. Scale II officer in bank 'D' =  $\frac{16}{100} \times 9000 - 800$ = 1440 - 800 = 640 Required % =  $\frac{640-600}{640} \times 100$ =  $\frac{40}{640} \times 100$ =  $\frac{25}{4}$ % = 6.25%

## S46. Ans.(c)

**Sol.** If distance is same, then Speed is inversely proportion to time taken  $\Rightarrow$  Ratio between Speed in upstream to downstream is 1 : 2 Let Speed of boat in upstream and downstream be x and 2x respectively. Speed of stream  $=\frac{2x-x}{2} = 4$   $\Rightarrow x = 8$ Upstream speed = 8 km/hr Required time  $=\frac{48}{8} = 6$  hours

## S47. Ans.(d)

Sol. If B invested Rs. 'x' then A invested Rs. 1.25x Ratio of profit share A and B according to their investment 1.25x : x  $\rightarrow$  5 : 4 If total profit = 100y A's profit = 15y + 85y  $\times \frac{5}{9}$  = 9520 135y + 425y = 9520  $\times$  9 y =  $\frac{9520 \times 9}{560}$  = 153 Total profit earned by them = 100  $\times$  153 = 15,300

## S48. Ans.(e)

**Sol.** Total surface area of full cylinder =  $2\pi r^2 + 2\pi rh$ Total surface area of half cylinder =  $2\pi r^2 + \frac{2\pi rh}{2} = 2\pi r^2 + \pi rh$ ATQ,  $2\pi r^2 + 2\pi rh - 2\pi r^2 - \pi rh = 308$  $\pi rh = 308$  $\Rightarrow h = \frac{308}{22} \times \frac{7}{7} = 14$ Volume of cylinder =  $\pi r^2 h = \frac{22}{7} \times 7 \times 7 \times 14 = 2156 cm^3$ 

## S49. Ans.(b)

**Sol.** Overall rate for 2 years in scheme 'A' =  $2 \times 20 = 40\%$ Overall rate for 2 years in scheme 'B' =  $10 + 10 + \frac{10 \times 10}{100} = 21\%$ ATQ,  $\frac{40X}{100} + \frac{21 \times 1.5X}{100} = 572$ 40X + 31.5X = 57200 $\Rightarrow X = \frac{57200}{71.5} = 800$ Interest earned from scheme 'B' =  $1.5 \times 800 \times \frac{21}{100} = 252$ 

#### S50. Ans.(a)

**Sol.** Length of rectangle =  $\sqrt{784} = 28$ Breadth of rectangle =  $\frac{88}{4}$  = 22 Area of rectangle =  $28 \times 22 = 616 \text{ cm}^2$ 

## S51. Ans.(e)

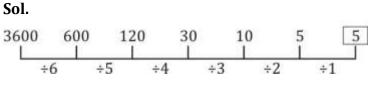
Sol.

48	26	2	8 4	4	90	227	683
×0.54	+2	×1+2	×1.5+2	×2+2	×2.5	+2 ×3	3+2

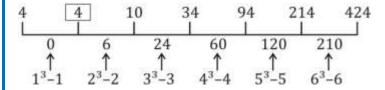
S52. Ans.(a) Sol.



S53. Ans.(d)



Sol.



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S55. Ans.(e) Sol. 6 15 49 201 1011 6073 ×2+3 ×3+4 ×4+5 ×5+6 ×6+7 4 Solutions (56-60) Let no. of boys in class 'X' = 100xNo. of girls in class 'Y' = 100xNo. of boys in class Y' = 100x + 10No. of girls in class  $X = \frac{100x}{2} = 50x$ Total no. of students in class 'X' = 100x + 50x = 150xTotal no. of students in class 'Y' = 100x + 100x + 10 = 200x + 10ATO.  $\frac{200x+10}{150x} = \frac{140}{100}$  $\Rightarrow$  200x + 10 = 210x  $\Rightarrow$  x = 1 Y Х Boys Girls Boys Girls 100 50 110 100 Mentor in class X =  $\frac{40}{100} \times 100 = 40$ Mentor in class Y =  $\frac{60}{100} \times 100 = 60$ addazyr S56. Ans.(a) **Sol.** Required% =  $\frac{110-50}{50} \times 100$  $=\frac{60}{50} \times 100 = 120\%$ S57. Ans.(a)

**Sol.** Required difference = 60 - 40 = 20

#### S58. Ans.(e)

**Sol.** Total no. of students in Class 'Z' =  $\frac{140}{100} \times 110 + \frac{120}{100} \times 50$ = 154 + 60 = 214

**S59. Ans.(e) Sol.** Required difference = 100 + 110 - 50 - 100 = 210 - 150 = 60

S60. Ans.(c) **Sol.** Total no. of girls who failed =  $\frac{80}{100} \times 50 + \frac{55}{100} \times 100$ = 40 + 55 = 95S61. Ans.(b) **Sol.**  $(X - 4) \times 5 = (X + 5) \times 4$ 5X - 20 = 4X + 20X = 40 $(Y - 15) \times 6 = (Y + 15) \times 3$ 2Y - 30 = Y + 15Y = 45 Quantity II > Quantity I S62. Ans.(e) Sol. Ratio of profit share of A and B  $x \times 8$   $x \times 1.6 \times 9$ : 9 5 Quantity I: A's profit =  $25,200 \times \frac{5}{14} = 9000$ Quantity II: B's profit =  $14,000 \times \frac{9}{14} = 9000$ Quantity I = Quantity II addazyr S63. Ans.(e) Sol. ATQ,  $\frac{X \times 20 \times 2}{100} + X \left[ 1 + \frac{10}{100} \right]^2 - X = 4880$  $\frac{40X}{100} + \frac{21X}{100} = 4880$  $\frac{61X}{100} = 4880$  $\Rightarrow X = 8000$ Quantity I: 8000 + 2000 = 10,000 Quantity II: 8000  $\times \frac{125}{100} = 10,000$ Quantity I = Quantity II S64. Ans.(b) Sol.  $X = \frac{{}^{5}C_{2}}{{}^{8}C_{2}} = \frac{5 \times 4}{8 \times 7} = \frac{5}{14}$ Quantity II > Quantity I

S65. Ans.(d)

Sol.  $2^{y+4} \cdot 3^{2y+4} \cdot 4^{2y+4} = 3^{2y+4} \cdot 2^{2y+16}$  y + 4 + 4y + 8 = 4y + 16 y = 4  $x^2 - 10 + 24 = 0$   $x^2 - 6x - 4x + 24 = 0$  x(x-6) - 4(x-6) = 0 (x-4)(x-6) = 0 x = 4, 6Quantity II  $\ge$  Quantity I

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## S66. Ans.(d)

**Sol.** Total pens sold by Abhi in two months = 6500 + 7000 = 13500Total pens sold by Satish and Veer in January = 4500 + 7500 = 12000Required % =  $\frac{13500 - 12000}{12000} \times 100 = \frac{1500}{12000} \times 100 = 12.5\%$ 

#### S67. Ans.(e)

**Sol.** Total pens sold by Mohit =5500 + 6500 = 12000 Total ball pens sold =  $\frac{35}{100} \times 12000 = 4200$ Total gel pens sold = 12000 - 4200 = 7800 Total gels pens sold in February =  $7800 \times \frac{60}{100} = 4680$ Total ball pens sold in February = 6500 - 4680 = 1820

## S68. Ans.(a)

**Sol.** Required amount =  $5 \times \frac{40}{100} \times 4500 + 10 \times \frac{25}{100} \times 6000$ = 9,000 + 15,000 = 24,000

#### S69. Ans.(c)

**Sol.** Total pens sold in January = 8000 + 4500 + 5500 + 7500 + 6500 = 32,000Total pens sold in February = 6000 + 6000 + 6500 + 4500 + 7000 = 30,000Required Ratio =  $\frac{32,000}{30,000} = \frac{16}{15}$ 

#### S70. Ans.(a)

**Sol.** Total pens sold by Anurag =  $\frac{120}{100} \times 8000 + \frac{125}{100} \times 6000$ = 9600 + 7500 = 17,100