SBI Clerk Mains 2020 Quantitative Aptitude Practice PDF - Solutions

S1. Ans (a)

Sol. Girls participated from DAV in 2007 = 9600 $\times \frac{36}{100} = 3456$ girls participated from Gita Niketan in 2009 and 2010 together = $9000 \times \frac{51}{100} + 7800 \times \frac{55}{100} = 8880$ boys participated from Gita Niketan in 2009 and 2010 together = (9000 + 7800) - 8880 = 7920Required percentage $=\frac{7920-3456}{7920} \times 100 \approx 56\%$

S2. Ans (e)

sol. Students from Gita Niketan = 8400 + 8200 + 9500 + 7100 + 9000 + 7800 = 50000 students from DAV = 8100 + 9200 + 9600 + 9400 + 8400 + 8000 = 52700required difference $=\frac{52700}{6} - \frac{50000}{6} = \frac{2700}{6} = 450$

S3. Ans (d)

Sol. Girls participated from DAV & Gita Niketan together in $2009 = \frac{45}{100} \times 8400 + \frac{51}{100} \times 9000$ = 3780 + 4590 = 8370boys participated from green field public school $=\frac{90}{100} \times 8370 = 7533$ total no. of students of green field = $7533 \times \frac{100}{45} = 16740$ no. of girls = 16740 - 7533 = 9207

S4. Ans (b)

Sol. Total no. of boys = $84 \times \frac{55}{100} + 82 \times \frac{56}{100} + \frac{65}{100} \times 95 + \frac{58}{100} \times 71 + \frac{49}{100} \times 90 + \frac{45}{100} \times 78$ = 27425

S5. Ans (a)

Sol. Total Students from Gita Niketan = 50000 Total boys from Gita Niketan = 27425Total no. of girls participated = 50000 - 27425 = 22575required percentage = $\frac{27425-22575}{50000} \times 100$ = 9.7%

S6. Ans.(a) **Sol.** At the end of three years amount will be $=15000 + \frac{15000 \times 3 \times 8}{100}$ = 18600 Rs. Now, amount put at CI for 2 years So amount = $18600(1 + \frac{10}{100})^2$ = 22506 Rs.



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S7. Ans.(e) **Sol.** P×4×9/100–P×2×12/100=360 12P/100=360 P = 3000 Rs.S8. Ans.(c) **Sol.** Let distance from B to C is x km $\text{ATQ, } \frac{x}{20} - \frac{x+4}{28} = \frac{36}{60}$ $\frac{7x - 5x - 20}{140} = \frac{3}{5}$ 2x - 20 = 842x = 104x = 52 km \therefore Distance from A to B = 56 km S9. Ans.(d) Sol. Given, $(A + B) = \frac{72}{5} days$ $B + C = \frac{72}{7} days$ ATQ, (A + B)8 days + (B + C)4 days + (C)1 days = Total work $\frac{8 \times 5}{72} + \frac{4 \times 7}{72} + \frac{1}{C} = 1$ $\frac{72}{5} + \frac{7}{18} + \frac{1}{c} = 1$ $\frac{17}{18} + \frac{1}{c} = 1$ $\frac{17}{18} + \frac{1}{c} = 1$ $\frac{1}{c} = 1 - \frac{17}{18}$ $\frac{1}{c} = \frac{1}{18}$ C = 19 davaaddazyj C = 18 days $B = \frac{7}{72} - \frac{1}{18}$ $B = \frac{7-4}{72}$ B = 24 days $A = \frac{5}{72} - \frac{1}{24}$ A = 36 daysTotal work = 72 units (LCM of days taken by A, B & C) Efficiency of A = 2 unit/day Efficiency of B = 3 units/day Efficiency of C = 4 units/day New efficiency of $C = \frac{4}{2} = 2$ units/day Required days = $\frac{72}{(2+3+2)} = 10\frac{2}{7}$ days

S10. Ans(c) Sol. Let number of blue & yellow balls in the bag be 3x & 4x respectively ATQ – $\frac{3x}{4x-2} = \frac{5}{6}$ 18x = 20x - 10 x = 5 Number of blue balls = 15 Number of yellow balls = 20 Required probability = $\frac{15c_2+20c_2}{35c_2} = \frac{21}{119} + \frac{38}{119}$ $= \frac{59}{119}$	TEST SERIES Bilingual Video Solutions IBPS RRB 2020 PO + CLERK PRIME 245 + Total Tests eBooks
S11. Ans.(c) Sol. ×0.5, ×1.5, ×2.5, ×3.5, ×4.5 328.125 × 4.5 = 1476.5625	
S12. Ans.(d) Sol. $\times 2 + 2.5, \times 4 + 4.5, \times 6 + 6.5, \times 8 + 8.5, \times 10 + 10.5$ $2676.5 \times 10 + 10.5$ = 26765 + 10.5 = 26775.5 S13. Ans.(a) Sol. $+8^3, +12^3, +16^3, 20^3, + \dots$. $14412 + 24^3 = 28236$	
S14. Ans.(a) Sol. + $(8 \times 6) - 1, +(8 \times 7) - 1, +(8 \times 8) - 1, +(8 \times 9) - 1, +(8 \times 10) - 1$ 284 + $(8 \times 9) - 1 = 284 + 71$ = 355	
S15. Ans.(e) Sol. -80, +10, -40, +20 (it's a double series - 80 -40 & +10 +20) 447 - 20= 427	

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Solutions (16-20):

Bikes produced by Hero on Monday $=\frac{540}{3}=180$ Let no. of bikes produced by Bajaj and Honda on Monday be x and y respectively. So, 180 - x = y - 180x + y = 360And v - x = 40From above equation x = 160 and y = 200Bikes produced by Hero on Wednesday = 150+100=250Bikes produced by Hero on Thursday $=\frac{5}{11} \times [910 - (180 + 150 + 250)]$ = 150And bikes produced by Hero on Friday = 180Bikes produced by Honda on Wednesday = 220 + 80 = 300Bikes produced by Honda on Tuesday = 570 - 150 - 220 = 200Total bikes produced on Wednesday = $570 \times \frac{100}{76} = 750$ Bikes produced by Bajaj on Wednesday = 750 - (250 + 300) = 200Bikes produced by Honda on Thursday = $\frac{5}{3} \times 150 = 250$ Bikes produced by Bajaj on Thursday = 580 - (150 + 250) = 180Hero Bajai Honda total Monday 160 200 540 180 Tuesday 150 220 200 570 Wednesday 250 750 200 300 Thursday 150 250 180 580 Friday 180 140 200 520

S16. Ans (c) Sol. $\frac{570}{750} = 19 : 25$

Total

S17. Ans (a) Sol. Required percentage $=\frac{200}{900} \times 100 = \frac{200}{9} = 22\frac{2}{9}\%$

S18. Ans (e) Sol. Required average $=\frac{1150}{5} = 230$

910

S19. Ans (c) Sol. No. of bikes produced on Tuesday and Thursday is same i.e. 150

900

1150

S20. Ans (c)

Sol. Bikes produced by Honda on Saturday = $200 \times \frac{75}{100} = 150$ So, bikes produced by Hero on Saturday = $150 \times \frac{23}{25} = 138$ So, bikes produced by Bajaj on Saturday = 430 - 150 - 138 = 142



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