SBI Clerk Prelims Practice Set for Quantitative Aptitude (Solutions)

S1. Ans.(e) Sol. $\sqrt{5776} - \sqrt{1444} + \sqrt{729} = 43 + ?$ 76 - 38 + 27 = 43 + ??=65 - 43 = 22

S2. Ans.(a) Sol. 78 ×26÷6 +1262= 1311 + (?)² 2028÷6+1262 =1311 + (?)² 338+1262 =1311+(?)² (?)²=1600 -1311 =289 ? = $\sqrt{289}$ =17

S3. Ans.(a) Sol. 1484÷28 + 1462÷34 -12×7= ? ?=53+43 -84 = 12

S4. Ans.(c)

Sol. 42.5×15 +37.5× 25= 1420 + ? 637.5+937.5 =1420 + ? ?= 1575 - 1420 = 155

S5. Ans.(b)

Sol. 2450 +3760 -3830 =6000 - ? 2380 =6000 - ? ?=6000 -2380 = 3620

S6. Ans.(b)



S7. Ans.(c)

Sol. $25 \times 18 + \frac{4200}{40} - \frac{525}{105} = 740 - ?$ 450 + 105 - 5 = 740 - ?? = 740 - 550= 190



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S8. Ans.(d)

Sol. $3845+4380+2640 - 5965 = (?)^2$ (?)²=10865 - 5965 =4900 ?= $\sqrt{4900}$ =70

S9. Ans.(b)

Sol. 400 ÷ 20 × 35 + 6666 ÷ 33+ ? = 1100 20× 35 + 202+? = 1100 ?=1100-(700+202) =1100- 902 =198

S10. Ans.(b)

Sol. 28×14.5+1680÷15+445=1000 -? 406+112+445=1000-? 963=1000-? ?=1000-963=37

S11. Ans.(d) Sol. Hockey players in school X and school Z together in year 2016 $= \frac{80}{(60-40)} \times 60 + \frac{180}{(80-20)} \times 80$ = 240 + 240 = 480Cricket players in same schools together in year 2017 $= \frac{120}{(80-20)} \times 80 + \frac{160}{(52-48)} \times 48$ = 160 + 1920 = 2080

Required difference = 2080 - 480 = 1600

S12. Ans.(a)

Sol. Cricket players in school K and L together in year 2016

$$= \frac{320}{(70-30)} \times 70 + \frac{100}{(55-45)} \times 55$$

= 560 + 550 = 1110
Hockey players in school Y in year 2017
= $\frac{80}{(55-45)} \times 55 = 440$
Required percentage = $\frac{1110}{440} \times 100$

 $= 252 \frac{3}{11}\%$

S13. Ans.(b)

Sol. Required average

$$= \frac{1}{3} \left[\frac{150}{(75-25)} \times 25 + \frac{180}{(80-20)} \times 20 + \frac{160}{(52-48)} \times 48 \right]$$
$$= \frac{1}{3} [75+60+1920]$$
$$= \frac{2055}{3} = 685$$

S14. Ans.(e)

Sol. Required ratio

 $= \frac{\frac{80}{(55-45)} \times 55}{\frac{100}{(55-45)} \times 55}$ $= \frac{440}{550}$ $= \frac{4}{5} = 4:5$

S15. Ans.(c)





S17. Ans.(a) Sol.



S18. Ans.(b)





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S19. Ans.(e) Sol. 1 ł 13 S20. Ans.(c) Sol. 20 <u>11</u> 12 19 39 98 x0.5+1 x1+1 x1.5+1 x2+1 x2.5+1 20 98.5 S21. Ans.(a) **Sol.** required average = $\frac{7.5 \times 6 + 8.5 \times 2 + 42}{10} = 10.40 \ run/over$ S22. Ans.(d) Sol. let CP be Rs. x SP (Johny) = $\frac{110}{100} \times x = Rs. 1.1 x$ Since Jini calculate profit at SP $\frac{SP-x}{SP} \times 100 = 10$ 10 SP - 10x = SP $SP = Rs.\frac{10}{9}x$ $SP = Rs. \frac{1}{9}x$ Required ratio = $1.1x : \frac{10x}{9} = 99 : 100$ lda 243 S23. Ans.(b) **Sol.** let red covers be 'x' ATQ, $\frac{x}{5} = 0.6 \implies x = 3$ Green covers = 5 - 3 = 2S24. Ans.(e) Sol. no boy sit together means boys will sit alternately Ways to arrange girls = 5! Now in alternate order, 6 places will be available to arrange boys Ways to arrange boys = 6_{C_3} Total ways = $5! \times 6_{C_3} = 2400$ S25. Ans.(a)

Sol. total distance = $4 \times \frac{30}{60} + 10 \times \frac{20}{60} + 50 \times \frac{10}{60} = \frac{41}{3} kms$ Total time taken = 30 + 20 + 10 = 60 minutes = 1 hourAverage speed = $\frac{\frac{41}{3}}{1} = \frac{41}{3} kmph = 13.67 kmph$ S26. Ans.(b)Sol. Let the length(l) and breadth(b) of the rectangle be 20x and 10y respectively.

Area of the rectangle= $l \times b = 20x \times 10y = 200xy$

When length and breadth of the rectangle is increased by 20% and 10% respectively,

then new length and new breadth of rectangle will be 24x and 11y respectively

new area of rectangle= $24x \times 11y = 264xy$

% increase in area of the rectangle= $\frac{264xy-200xy}{200xy} \times 100$

=32%

S27. Ans.(c)

Sol. Here, Pipe A alone and Pipe B alone can fill the tank in 20 min and 30 min respectively and Pipe C alone can empty the tank in 10 min

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Then, total work =60 units

Therefore, efficiency of pipe A and pipe B are 3 units/min and 2 units/min respectively and efficiency of pipe C is 6 units/min

Total efficiency when all 3 pipes are opened simultaneously=3+2-6 = -1 unit/min

Total time taken to empty the tank if the tank is completely full= $\frac{60}{1}$

=60 min (as total efficiency of all 3 pipes is -1)

S28. Ans.(a)

Let R be effective interest and P be principal amount So, $R = \frac{20}{2} = 10\%$ And, period of time= 2 × 2 = 4 (as it is compounded half- yearly) C.I=P(1+ $\frac{R}{100}$)⁴ -P =4000(1+ $\frac{10}{100}$)⁴ -4000 =Rs 1856.4

S29. Ans.(a)

There are 7 green, 6 blue and 5 red balls in a basket Required probability(both being green or red) = $\frac{7c_2 + 5c_2}{18c_2} = \frac{31}{153}$

S30. Ans.(b)

The container is full of 75 litre milk

Required quantity of milk=75 $\left(1 - \frac{15}{75}\right)^3$ =75 $\left(1 - \frac{1}{5}\right)^3$ = 38.4 litres

S31. Ans.(a) Sol. I. $2x^2 + 10x + 12 = 0$ $2x^2 + 6x + 4x + 12 = 0$ (2x + 4)(x + 3) = 0 x = -3, -2 II. $y^2 + 10y + 25 = 0$ $y^2 + 5y + 5y + 25 = 0$ (y + 5)(y + 5) = 0 y = -5 $\therefore x > y$		
S32. Ans.(a) Sol. I. $x^2 - 3x - 2x + 6 = 0$ (x - 3)(x - 2) = 0 x = +3, +2 II. $y^2 + 6y + y + 6 = 0$ (y + 1)(y + 6) = 0 y = -1, -6 $\therefore x > y$		
S33. Ans.(d) Sol. I. x = ± 25 II. y = +25 ∴ x ≤ y		
S34. Ans.(a) Sol. (I) × 2 – (II) –6y + 2y = –16 y = 4 x = 6 x > y.	duud 24 I	
S35. Ans.(e) Sol. I. x = +11 y = +11		TEST SERIES Bilingual
∴ x = y		SBI CLERK 2021
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