

Quant Mega Quiz for SSC CHSL (Solutions)

S1. Ans.(d);

Sol.

$$\frac{5}{113} \times \frac{7}{120} \Rightarrow 600 < 791$$

$$\frac{7}{120} \times \frac{13}{145} \Rightarrow 1015 < 1560$$

$$\frac{13}{145} \times \frac{17}{160} \Rightarrow 2080 < 2465$$

So,  $\frac{17}{160}$  is largest

S2. Ans.(b);

Sol.

$$\text{Nirmit} \Rightarrow \frac{2}{3} \text{ work} = 18 \Rightarrow 27 \text{ days}$$

Kashish  $\Rightarrow \frac{27}{2}$  days, due to double efficiency  
it will take half no. of days as Nirmit.

S3. Ans.(b);

Sol.

$$\text{Area of pool} = 30 \times 25 = 750$$

$$\text{No. of person} = 40$$

$$\text{So, Rise in level of pool} = \frac{40 \times 5}{30 \times 25} \text{ m}$$

$$= 26.66 \text{ cm}$$

S4. Ans.(c);

Sol.

$$\text{List price} = 2375$$

$$\text{Ist successive discount } 50\% = 1187.5$$

$$\text{IInd successive discount } 25\% = 890.625$$

$$\text{spending amount} = 890.625 + 165 = 1055.625$$

$$\text{So, if he earn profit of } 62.5\% = 1055.625 \times 1.625$$

$$= 1715.39$$

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S5. Ans.(d);

Sol.

Given that,

Ratio Of length, breath and height= 19 : 11 : 13

& length is 30 cm more than height mean

6 ratio = 30 cm

1 ratio = 5 cm

than volume =  $(19 \times 11 \times 13) \times 5 \times 5 \times 5$   
= 339625

S6. Ans.(c);

Sol. Req. age of coach =  $13 \times 25 - 12 \times 23 = 49$

S7. Ans.(b);

Sol.

Successive gain% =  $\left[30 + 20 + \frac{30 \times 20}{100}\right] = 56\%$

So, find selling price, 156% = 31200

So, cost price =  $\frac{31200}{156} \times 100 = 20000$

S8. Ans.(c);

Sol.

No. of tree = 17640

For 2 year ago 5% per annum

=  $17640 \times \frac{100}{105} \times \frac{100}{105}$

= 16000

S9. Ans.(a);

Sol.

We know that

$$\Rightarrow \frac{S_1}{S_2} = \frac{\sqrt{t_2}}{\sqrt{t_1}} \Rightarrow \frac{30}{S_2} = \frac{\sqrt{225}}{\sqrt{196}}$$

$$S_2 = 14 \times 2 = 28 \text{ km/h}$$

S10. Ans.(c);

Sol.

SI for 10 year = 3130

& given that principal becomes 5 times after 5 years

$P \times r \times t / 100 = 3130$

$Pr / 100 = 313$

ATQ,

Total SI =  $P \times r \times 5 / 100 + 5P \times r \times 5 / 100$

=  $Pr / 100 (5 + 25) = 313 \times 30 = 9390$

S11. Ans.(d)

Sol.

Maximum earning will be only when he will win on the maximum yielding table

$$P - 15 : 1$$

$$Q - 12 : 1$$

$$R - 18 : 1$$

$$S - 10 : 1$$

i.e. he won on P and R but lose on Q and S

$$15 \times 150 + 18 \times 150 - 2 \times 150$$

$$= 4650$$

Minimum earning will be when he won on table Q and S and Lose on P and R

$$\therefore (12 + 10) 150 - 2 \times 150 \\ = 3000$$

$$\text{Therefore, difference} = 4650 - 3000 \\ = 1650$$

S12. Ans.(b)

Sol.

The density of  $A_1$ ,  $A_2$  and  $A_3$  are 39, 51, 57 gm/cc

$$\text{Again Since Volume} = \frac{\text{weight}}{\text{density}}$$

Now the weight of  $A_3$  in 1050 kg mixture

$$\Rightarrow \frac{1050 \times 7}{15} = 490 \text{ kg.}$$

$$\text{Now the Volume of } A_3 = \frac{490}{57} \text{ liter.}$$

$$\therefore \text{the cost of } = \frac{490}{57} \text{ liter Petrol} = \frac{490}{57} \times 38 \\ = \frac{980}{3} = \text{Rs } 326.67$$

S13. Ans.(d)

Sol.

$$(18x + 7) : (7x - 23) = (29x - 4) : (3x - 19)$$

$$\text{Put } x = 1$$

$$5 : -16 = 25 : -16$$

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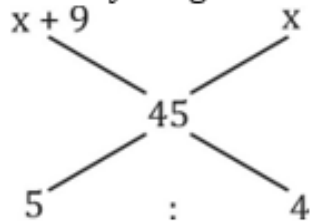
S14. Ans.(b)

Sol.

$$\because \text{Loss}\% \Rightarrow 22.22\% = \frac{2}{9} \text{ loss}$$

$$\text{Then cost price of mixture} = \frac{35}{7} \times 9 = 45$$

Now by allegation



$$\Rightarrow \frac{(x+9)-45}{45-x} = \frac{4}{5}$$

$$\Rightarrow 5x - 180 = 180 - 4x$$

$$9x = 360$$

$$x = 40$$

$$x + 7 = 47$$

$$\text{required sum} = 87$$

S15. Ans.(d)

Sol.

$$\text{First Ratio} = 5 : 7 : 11$$

$$\text{Second Ratio} = 6 : 9 : 7$$

$\because$  in third basket no. of apples remains constant.

$$5 \times 7 : 7 \times 7 : 11 \times 7$$

Required Ratio

$$\begin{array}{r} 5 \times 7 : 7 \times 7 : 11 \times 7 \\ - 6 \times 11 : 9 \times 11 : 7 \times 11 \\ \hline 31 : 50 : 0 \end{array}$$

S16. Ans.(b)

Sol.

If Rs. 177.5 are divide in the ratio  $\frac{1}{5} : \frac{1}{7} : \frac{1}{3}$  that

is, 21: 15: 35 among P, Q and R, then

$$\text{Share of P} = \text{Rs. } 52.5$$

$$\text{Share of Q} = \text{Rs. } 37.5$$

$$\text{Share of R} = \text{Rs. } 87.5$$

If Rs. 177.5 are divided in the ratio 5: 7: 3 among, P, Q and R then

$$\text{Share of P} = \text{Rs. } 59.16$$

$$\text{Share of Q} = \text{Rs. } 82.83.$$

$$\text{Share of R} = \text{Rs. } 35.5$$

Q gained.

S17. Ans.(a)

Sol. Let the initial number of employees be  $11x$  and the employer gives Rs.  $19y$  as wage to each.

Now, according to the question,

$$11x \times 19y = 209xy$$

$$\text{And the late bill} = 9x \times 23y = 207xy$$

$$\therefore \text{Required ratio} = 209xy : 207xy = 209 : 207$$

S18. Ans.(d)

Sol. Let the initial capitals of P and Q be Rs.  $4x$  and Rs.  $9x$  respectively.

Then, Ratio of profits =  $(4x \times 36) : (9x \times 24)$

$$= 2 : 3$$

$$\therefore \text{Q's share} = \text{Rs.} \left( 39000 \times \frac{3}{5} \right) = \text{Rs.} 23400$$

S19. Ans.(C)

Sol.

A B C

$$3 : 6 \times \frac{3}{4} : 5$$

$$6 : 9 : 10$$

Profit = 50,000

50% Reinvested

Hence 50% is distributed which is 50% of 50000 = 25000

From remaining

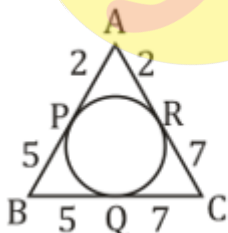
$$\text{Share of C} = \frac{10}{25} \times 25000 = 10,000$$

S20. Ans.(a)

Sol. If we assume the numbers as 16 and 4 based on 4 : 1 (in option a), the AM would be 10 and the GM = 8 a difference of 20% as stipulated in the question. Option (a) is correct.

S21. Ans.(b)

Sol.



As we know,

$$AP = AR$$

$$BP = BQ$$

$$CQ = CR$$

$$AB = 7 \text{ cm } BC = 12 \text{ cm } AC = 9 \text{ cm}$$

$$\text{Area of } \Delta = \sqrt{14(7)(2)(5)} = 14\sqrt{5} \text{ cm}^2$$

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S22. Ans.(a)

Sol.

Speed	Time
24	2
48	4
$-24 \uparrow 72$	$6 \downarrow +2$
96	8

∴ Original speed = 96 km/hr

$33\frac{1}{3}\%$  of original speed =  $96 \times \frac{1}{3} = 32$  km/hr

S23. Ans.(b)

Sol.

A	B
3	5
$5 \times 2$	$6 \times 2$
10	12

) 7 — 14  
1 — 2

Present Age's of A and B —  $(3 \times 2) + 4$        $(5 \times 2) + 4$   
10                      14

Sum of present ages of A & B = 24.

S24. Ans.(c)

Sol.

CP	SP	P%
100	320	220
$\uparrow +25\%$		
125	320	156

)  $\frac{64}{220} \times 100 = 29\%$

S25. Ans.(b)

Sol.

78y is divisible by 8, So  $y = 4$

$$\frac{9+8+5+x+3+6+7+8+4}{9} = \frac{50+x}{9}$$

So  $x = 4$

$x + y = 8$

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