

**Quiz Date: 31<sup>st</sup> May 2020**

Q1. Arun takes 4 more days than Rana to complete a work. Yash is 20% more efficient than Rana and takes 1 less day Rana takes. Find the number of days taken by all of them to complete twice this work together?

- (a) 6 days
- (b)  $2\frac{1}{7}$  days
- (c)  $4\frac{2}{7}$  days
- (d)  $3\frac{1}{3}$  days
- (e)  $5\frac{2}{7}$  days

Q2. A man deposited his savings in 3 different schemes X, Y and Z and they offer SI at 10% per annum, SI at 6% per half year and CI at 10% per annum respectively. At the end of two years, total interest obtained by man from all the three schemes is Rs. 2580. Find initially total amount deposited by man, if amount invested in scheme Z is twice of each of scheme X and scheme Y and amount invested in both X and Y are same(in Rs.)?

- (a) 3000
- (b) 6000
- (c) 9000
- (d) 12000
- (e) 8000

Q3. 19 person went to a hotel for a combined dinner party. 13 of them spent Rs. 79 each on their dinner and the rest spent Rs. 4 more than the average expenditure of all the 19. What was total money (in Rs) spent by them?(approximate)

- (a) 1628
- (b) 1518
- (c) 1492
- (d) 1476
- (e) 1536

Q4. A fruit seller has three types of mangoes i.e. type x, type y and type z and per kg price of these types of mangoes is Rs. 22.5, Rs. 25 and Rs. 'a'. If seller mixed all three type x, type y and type z in the ratio of 2 : 3 : 3 and sold the mixture at the rate of Rs. 30.8 per kg and made a profit of 12%, then find the per kg price of type z mangoes?

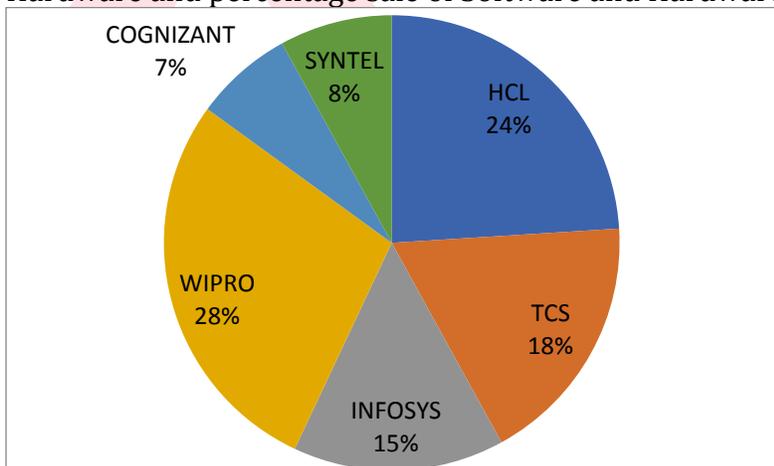
- (a)  $37\frac{1}{2}$  Rs.
- (b)  $33\frac{1}{3}$  Rs.
- (c)  $39\frac{1}{3}$  Rs.
- (d)  $41\frac{1}{3}$  Rs.
- (e)  $35\frac{1}{3}$  Rs.

Q5. Ten years ago, sum of age of mother & son is 16 years less than present age of father and age of mother at the time of birth of son is 32 years less than father's present age. If after six-year ratio of age of son and mother will be 6 : 11, then find average of present age of mother and father?

- (a) 42 years  
 (b) 40 years  
 (c) 48 years  
 (d) 45 years  
 (e) 44 years



Directions (6-10): Following pie-chart shows the percentage distribution of total items (Software and Hardware) produced by six companies (TCS, HCL, INFOSYS, WIPRO, COGNIZANT and SYNTEL) and the table shows the ratio of produced no. of Software to Hardware and percentage sale of Software and Hardware.



Company	Software : Hardware	% Sold Software	% Sold Hardware
HCL	5 : 3	65	62
TCS	5 : 4	56	78
INFOSYS	2 : 3	72	66
WIPRO	3 : 4	75	60
COGNIZANT	4 : 3	64	55
SYNTEL	3 : 2	50	48

Total item (Software+ Hardware )= 16 lakh

Q6. What is the difference between the total items produced by Company TCS and HCL together and the total items produced by Company WIPRO and Syntel together?

- (a) 1.24 lakh
- (b) 1.28 lakh
- (c) 0.64 lakh
- (d) 2.24 lakh
- (e) 0.96 lakh

Q7. What is the difference between the total number of Software items and the total number of Hardware items produced by Company SYNTEL and HCL respectively?

- (a) 0.572 lakh
- (b) 0.672 lakh
- (c) 0.472 lakh
- (d) 0.372 lakh
- (e) 0.172 lakh

Q8. What is the average number of Software items sold by all six companies together?

- (a) 0.8948 lakh
- (b) 0.8958 lakh
- (c) 0.8968 lakh
- (d) 0.8978 lakh
- (e) None of these

Q9. What is the difference between the number of Software items sold and the number of Hardware, items sold by Company COGNIZANT, TCS and Wipro together?

- (a) 0.9528 lakh
- (b) 0.1428 lakh
- (c) 0.0428 lakh
- (d) 0.1528 lakh
- (e) 0.0528 lakh

Q10. The number of Software, items sold by Company TCS, HCL and Infosys together is approximate what percentage of the number of Software, items sold by Company SYNTEL and Cognizant together?

- (a) 300%
- (b) 350%
- (c) 400%
- (d) 450%
- (e) 500%

Direction (11-15) : What approximate value will come at the place of question (?) mark.

Q11.  $148.01\%$  of  $2274.98 + (7.04)^3 + 7.98\%$  of  $? = (62.01)^2$

- (a) 1575

- (b) 1475
- (c) 1275
- (d) 1675
- (e) 1550

Q12.  $\frac{2249.85}{74.8} + 138.9 = (?)^2 - 47.95\% \text{ of } 750 - 199.95$

- (a) 16
- (b) 18
- (c) 20
- (d) 27
- (e) 22

Q13.  $239.89\% \text{ of } 400.23 + (35.96)^2 - 59.99\% \text{ of } 1999.89 = (24.89)^2 + ?$

- (a) 421
- (b) 431
- (c) 441
- (d) 411
- (e) 401

Q14.  $3027.89 + 671.93 - 39.87\% \text{ of } ? + (9.98)^3 = (59.87)^2 - \sqrt{9999.98}$

- (a) 4000
- (b) 3500
- (c) 2000
- (d) 2500
- (e) 3000



Q15.  $\sqrt{429.87 + 520.23} + \sqrt{120.97} = (?)^2 + \sqrt{35.98}$

- (a) 2
- (b) 3
- (c) 8
- (d) 5
- (e) 9

**Solutions**

S1. Ans.(c)

Sol.

Ratio of efficiency of Rana and Yash is = 5 : 6.

So, ratio of time taken by Rana and Yash = 6 : 5.

Let time taken by Rana and Yash to complete the work be  $6x$  days and  $5x$  days respectively.

ATQ

$$6x - 5x = 1$$

$$x = 1$$

So, time taken by Arun =  $6x + 4 = 10$  days

Let total time taken by all of them working together to complete twice of work be  $T$  days.

$$\text{So, } T \left[ \frac{1}{5} + \frac{1}{6} + \frac{1}{10} \right] = 2$$

$$T = \frac{60}{14} = 4\frac{2}{7} \text{ days}$$

S2. Ans.(d)

Sol.

Let man invested amount Rs  $2a$  in scheme Z and Rs  $a$  in each of scheme Y and X.

ATQ,

$$\frac{(a \times 10 \times 2)}{100} + \frac{a \times 6 \times 2 \times 2}{100} + \left[ 2a \left( 1 + \frac{10}{100} \right)^2 - 2a \right] = 2580$$

$$= \frac{20a}{100} + \frac{24a}{100} + \left[ \frac{242a}{100} - 2a \right] = 2580$$

$$= \frac{20a + 24a + 42a}{100} = 2580$$

$$= \frac{86a}{100} = 2580$$

$$a = \frac{2580 \times 50}{43} = 3000 \text{ Rs.}$$

Total amount invested initially is

$$a + a + 2a = 4a = \text{Rs. } 12000$$

S3. Ans (e)

Sol. Let average expenditure of the party is Rs  $x$

$$\therefore 13 \times 79 + 6(x + 4) = 19x$$

$$13x = 13 \times 79 + 24$$

$$x = \frac{1051}{13}$$

$$\text{Total expenditure of the party} = \frac{1051}{13} \times 19$$

$$\approx 1536$$

S4. Ans(b)

Sol.

$$\text{Cost price of mixture per kg} = 30.8 \times \frac{100}{112} = 27.5 \text{ Rs.}$$

ATQ -

$$22.5 \times 2 + 25 \times 3 + 3a = 27.5 \times 8$$

$$3a = 220 - 45 - 75$$

$$3a = 100$$

$$a = 33 \frac{1}{3} \text{ Rs.}$$

S5. Ans(d)

Sol.

Let present age of father, mother & son be 'f', 'm' & 's' respectively

ATQ -

$$(m - 10) + (s - 10) = f - 16$$

$$m + s = f + 4$$

$$f = m + s - 4 \text{ ----- (i)}$$

Mother's age when son is born = m - s

$$\text{Given, } m - s = f - 32$$

$$f = m - s + 32 \text{ ----- (ii)}$$

From (i) and (ii)

$$m + s - 4 = m - s + 32$$

$$2s = 36$$

$$s = 18 \text{ years}$$

$$\text{Given, } \frac{(s+6)}{(m+6)} = \frac{6}{11}$$

$$6m + 36 = 264$$

$$6m = 228$$

$$m = 38$$

From (i) we get -

$$f = 52 \text{ years}$$

$$\text{Required average} = \frac{38+52}{2} = 45 \text{ years}$$

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S(6-10):

Company	Software	Hardware	Sold Software	Sold Hardware
HCL	240000	144000	156000	89280
TCS	160000	128000	89600	99840
INFOSYS	96000	144000	69120	95040
WIPRO	192000	256000	144000	153600
COGNIZANT	64000	48000	40960	26400
SYNTEL	76800	51200	38400	24576

S6. Ans (e)

$$\begin{aligned}\text{Sol. Required difference} &= \left[ \frac{(24+18)-(28+8)}{100} \right] \times 16 \\ &= \frac{6}{100} \times 16 = 0.96\text{lakh}\end{aligned}$$

S7. Ans (b)

$$\text{Sol. Required difference} = (1.44 - 0.768) = 0.672 \text{ lakhs}$$

S8. Ans (c)

$$\begin{aligned}\text{Sol. Required average} &= \frac{1.56+0.896+0.6912+1.44+0.4096+0.384}{6} \\ &= \frac{5.3808}{6} = 0.8968\text{lakhs}\end{aligned}$$

S9. Ans (e)

$$\begin{aligned}\text{Sol. Required difference} &= (0.264 + 0.9984 + 1.536) - (0.4096 + 0.896 + 1.44) \\ &= 2.7984 - 2.7456 \\ &= 0.0528 \text{ lakhs}\end{aligned}$$

S10. Ans (c)

$$\begin{aligned}\text{Sol. Required \%} &= \frac{1.56+0.896+0.6912}{0.4096+0.384} \times 100 \\ &= \frac{3.1472}{0.7936} \times 100 \approx 400\%\end{aligned}$$

S11. Ans(d)

$$\begin{aligned}\text{Sol.} \\ \frac{148}{100} \times 2275 + 343 + \frac{8}{100} \times ? &= 3844 \\ 3367 + 343 + 0.08 \times ? &= 3844 \\ 0.08 \times ? &= 3844 - 3710 \\ ? &= \frac{134}{0.08} \\ ? &= 1675\end{aligned}$$

S12. Ans(d)

$$\begin{aligned}\text{Sol.} \\ \frac{2250}{75} + 139 &= (?)^2 - \frac{48}{100} \times 750 - 200 \\ 30 + 139 &= (?)^2 - 360 - 200 \\ (?)^2 &= 169 + 560 \\ ? &= 27\end{aligned}$$

S13. Ans(b)

$$\begin{aligned}\text{Sol.} \\ \frac{240}{100} \times 400 + 1296 - \frac{60}{100} \times 2000 &= 625 + ? \\ 960 + 1296 - 1200 - 625 &= ? \\ ? &= 431\end{aligned}$$

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S14. Ans.(e)

Sol.

$$3028 + 672 - 40\% \text{ of } ? + (10)^3 = (60)^2 - \sqrt{10000}$$

$$3700 + 1000 + 100 - 3600 = \frac{40 \times ?}{100}$$

$$? = 3000$$

S15. Ans (d)

Sol.

$$\sqrt{430 + 520 + \sqrt{121}} = (?)^2 + \sqrt{36}$$

$$\sqrt{430 + 520 + 11} = (?)^2 + 6$$

$$31 - 6 = (?)^2$$

$$? = 5$$

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