

Quiz Date: 28th May 2020

Q1. B is twice efficient as A and A can do a piece of work in 15 days. A started the work and after a few days B joined him. They completed the work in 11 days, from the starting. For how many days did they work together?

- (a) 1 day
- (b) 2 day
- (c) 6 days
- (d) 5 days
- (e) 9 days

Q2. A, B, C and D purchased a restaurant for Rs. 56 lakhs. The contribution of B, C and D together is 460% of A alone, the contribution of A, C and D together is 366.66% that of B's contribution and the contribution of C is 40% that of A, B and D together. The amount contributed by D is

- (a) 10 lakhs
- (b) 12 lakhs
- (c) 16 lakhs
- (d) 18 lakhs
- (e) None of these

Q3. If the selling price of a mat is five times the discount offered and if the percentage of discount is equal to the percentage profit, find the ratio of the discount offered to the cost price.

- (a) 11 : 30
- (b) 7 : 5
- (c) 1 : 6
- (d) 7 : 30
- (e) None of these

Q4. Two equal sums were lent, one at the rate of 11% p.a. for five years and the other at the rate of 8% p.a. for six years, both under simple interest. If the difference in interest accrued in the two cases is Rs 1008. Find the sum.

- (a) Rs 11,200
- (b) Rs 5,600
- (c) Rs 12,600
- (d) Rs 14,400
- (e) None of these

Q5. A can do some work in 24 days, B can do it in 32 days and C can do it in 60 days. They start working together. A left after 6 days and B left after working for 8 days. How many more days are required to complete the whole work?

- (a) 30
- (b) 25

- (c) 22
- (d) 20
- (e) None of these

Q6. Aniruddh can finish a job in 20 days. Ritika and Sakshi can finish the same job in 10 days. If ratio of efficiency of Ritika and Sakshi is 1:3 respectively, then find the time taken by all three to complete the same job working together.

- (a) $\frac{20}{3}$ days
- (b) 5 days
- (c) $\frac{17}{3}$ days
- (d) $\frac{23}{3}$ days
- (e) 6 days



Q7. Two containers contain honey and milk in the ratio 7:3 and 2:3 respectively. In what ratio should the contents of the containers be mixed such that the final ratio of honey and milk in the resultant solution becomes 23:17.

- (a) 5 : 3
- (b) 7 : 5
- (c) 4 : 3
- (d) 11 : 9
- (e) 7 : 6

Q8. The curved surface area of a cylinder is equal to the curved surface area of a cone. If radius of both is equal and radius of cone is twice of its height, then find the ratio of height of cylinder to that of cone.

- (a) $2: \sqrt{5}$
- (b) 1: 2
- (c) $\sqrt{5}: 2$
- (d) $\sqrt{3}: 1$
- (e) $\sqrt{5}: 3$

Q9. Neha's present age is 20% of Simaran's present age. After some years, Neha's age will become 60% of Simaran's age at that time. By what percent will Simaran's age increase during this period?

- (a) 100 %

- (b) 120 %
- (c) 80 %
- (d) 90 %
- (e) 125 %

Q10. In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. A student attempted all the 200 questions and scored in all 200 marks. The number of questions, he answered correctly was:

- (a) 82
- (b) 80
- (c) 68
- (d) 60
- (e) 75

Directions (11-15): What should come in place of question mark (?) in the following questions?

Q11. $?^2 = 512 \div 81 \div 72 \times 2916$

- (a) 9
- (b) 12
- (c) 16
- (d) 18
- (e) 20

Q12. $\frac{9}{2} + \frac{11}{3} + \frac{17}{6} = ? + \frac{12}{5} + \frac{21}{10}$

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

Q13. $5^{7-2} = (5)^5 \div (25)^3 \times (125)^2 \div 625$

- (a) -1
- (b) 0
- (c) 1
- (d) 2
- (e) 3

Q14. $? \times 65 \div 72 = 195 \times 352 \div 192$

- (a) 369
- (b) 396
- (c) 594
- (d) 297
- (e) 376



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Q15. $\sqrt[2]{256} \times (1728)^{\frac{1}{3}} = ? \times (4096)^{\frac{1}{4}}$

- (a) 16
 (b) 18
 (c) 24
 (d) 28
 (e) 32



Solutions

S1. Ans.(b)

Sol.

A does work in $\rightarrow 15$ days

\therefore B can do in $\rightarrow \frac{15}{2}$ days

Now, Let B worked for x days.

$$A/q, \frac{11}{15} + \frac{x \times 2}{15} = 1$$

$$\Rightarrow 2x + 11 = 15$$

$$x = 2 \text{ days}$$

So, they worked together for 2 days.

S2. Ans.(d)

Sol.

We can conclude

$$A: (B + C + D) = 100: 460 = 10: 46$$

$$\Rightarrow A's \text{ contribution} = 10 \text{ lakhs}$$

$$\& B: (A+C+D) = 100: 366.66$$

$$= 3: 11 = 12: 44$$

$$\Rightarrow B's \text{ contribution} = 12 \text{ lakh}$$

$$\& C: (A + B + D) = 40: 100$$

$$= 2: 5 = 16: 40$$

$$\Rightarrow C's \text{ Contribution} = 16 \text{ lakh}$$

$$\text{Hence, the contribution of D} = 56 - (10 + 12 + 16) = 18 \text{ lakhs}$$

S3. Ans.(d)

Sol.

Given

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$$SP = 5 \text{ (Discount)}$$

$$SP = 5 [MP - SP]$$

$$\Rightarrow MP = \frac{6}{5} SP \quad \dots (i)$$

Also,

$$\%D = \%P$$

$$\frac{MP - SP}{MP} \times 100 = \frac{SP - CP}{CP} \times 100 \quad (\text{Discount is always on MP})$$

$$\frac{\frac{6}{5} SP - SP}{\frac{6}{5} SP} = \frac{SP - CP}{CP}$$

$$\Rightarrow \frac{1}{6} = \frac{SP - CP}{CP}$$

$$\Rightarrow 7CP = 6SP$$

$$\Rightarrow CP = \frac{6}{7} SP \quad \dots (ii)$$

$$\frac{D}{C} = \frac{\left(\frac{6}{5} SP - SP\right)}{\frac{6}{7} SP} = \frac{\frac{1}{5} SP}{\frac{6}{7} SP} = \frac{7}{30} = 7 : 30$$

S4. Ans.(d)

Sol.

Let sum be Rs P

ATQ,

$$1008 = \frac{P \times 11 \times 5}{100} - \frac{P \times 8 \times 6}{100}$$

On solving, P = Rs. 14,400

S5. Ans.(c)

Sol.

A - 24

B - 32

C - 60

Let total work be 480 units (LCM)

So, efficiency of A, B and C are 20, 15 and 8 units/day respectively.

Work done in 6 days = 258 units by A, B and C.

Work done in next 2 days = 46 units by B & C

∴ Remaining work = 480 - 258 - 46 = 176 unit

∴ Extra time taken by C = $\frac{176}{8} = 22 \text{ days}$

S6. Ans.(a)

Sol.

Suppose, Aniruddh does x units per day,

And Ritika & Sakshi do y and 3y units per day respectively.

Then,

ATQ,

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$$2x = y + 3y$$

$$\text{or, } 2x = 4y$$

$$\text{or, } x = 2y$$

$$\text{Time taken by all of them} = \frac{\text{Total work}}{\text{units/day}}$$

$$= \frac{20 \times x}{(x+y+3y)}$$

$$= \frac{20 \times 2y}{2y+y+3y}$$

$$= \frac{40y}{6y}$$

$$= \frac{20}{3} \text{ days.}$$

Alternate

Let total work be 20 units (LCM)

so, efficiency of Aniruddh and Ritika & Sakshi together are 1 and 2 units/day respectively.

$$\text{Required time} = \frac{20}{3} \text{ days}$$



S7. Ans.(b)

Sol.

$$\begin{array}{ccc} \frac{7}{10} & \searrow & \frac{2}{5} \\ & \frac{23}{40} & / \\ \frac{7}{40} & / & \frac{5}{40} \end{array}$$

7 : 5

S8. Ans.(c)

Sol. Let, height of cylinder be H and that of cone be h.

And radius of both be r.

ATQ,

$$2\pi rH = \pi r\ell$$

$$\text{or, } 2H = \sqrt{r^2 + h^2}$$

$$\text{or, } 4H^2 = r^2 + h^2$$

we know, $r = 2h$

$$4H^2 = 4h^2 + h^2$$

$$\text{Or, } 4H^2 = 5h^2$$

$$\text{Or, } \frac{H^2}{h^2} = \frac{5}{4}$$

$$\text{Or, } \frac{H}{h} = \frac{\sqrt{5}}{2}$$

S9. Ans.(a)

Sol.

Let Simaran's present age is $5x$ yrs.

Then Neha's present age is $\frac{20}{100} \times 5x = x$ yrs.

After some years, Let Simaran's age be = $5y$ yrs.

Then, Neha's age be = $\frac{60}{100} \times 5y = 3y$ yrs.

Now,

$$5x - x = 5y - 3y$$

$$\text{or, } 4x = 2y$$

$$\text{or, } y = 2x$$

Simaran's present age = $5x$

Simaran's age after some years = $5y = 5 \times 2x = 10x$

$$\% \text{ increase} = \frac{10x - 5x}{5x} \times 100 = 100\%$$

S10. Ans.(b)

Sol. Let the number of correct answers be 'x'.

Number of wrong answers be $200 - x$

$$4x - (200 - x) = 200$$

$$5x = 400, x = 80$$

S11. Ans.(c)

Sol.

$$?^2 = \frac{512 \times 2916}{81 \times 72}$$

$$?^2 = 256$$

$$? = 16$$

S12. Ans.(b)

Sol.

$$\frac{9}{2} + \frac{11}{3} + \frac{17}{6} = ? + \frac{12}{5} + \frac{21}{10}$$

$$4 + \frac{1}{2} + 3 + \frac{2}{3} + 2 + \frac{5}{6} = ? + 2 + \frac{2}{5} + 2 + \frac{1}{10}$$

$$9 + \frac{3+4+5}{6} = ? + 4 + \frac{4+1}{10}$$

$$9 + 2 = ? + 4 + \frac{1}{2}$$

$$11 - 4 - \frac{1}{2} = ?$$

$$\Rightarrow ? = 6\frac{1}{2}$$

S13. Ans.(e)

Sol.

$$5^{?-2} = \frac{5^5}{25^3} \times \frac{125^2}{625}$$

$$5^{?-2} = \frac{5^5}{(5^2)^3} \times \frac{(5^3)^2}{5^4} = \frac{5^5 \times 5^6}{5^6 \times 5^4}$$

$$5^{?-2} = 5^1$$

$$? - 2 = 1$$

$$? = 3$$

S14. Ans.(b)

Sol.

$$? \times \frac{65}{72} = \frac{195 \times 352}{192}$$

$$? = \frac{195 \times 352 \times 72}{192 \times 65}$$

$$? = 396$$

S15. Ans.(c)

Sol.

$$\sqrt[2]{256} \times (1728)^{\frac{1}{3}} = ? \times (4096)^{\frac{1}{4}}$$

$$16 \times (12^3)^{\frac{1}{3}} = ? \times (8^4)^{\frac{1}{4}}$$

$$? = \frac{16 \times 12}{8} = 24$$

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