Quiz Date: 10th June 2020

- Q1. Raghuveer can do a work in certain days. Rohan can do $\frac{3}{5}th$ of the same work in 18 days. If Ravi, Rohan and Raghuveer together can complete the whole work in 12 days and Raghuveer is 20% more efficient than Rohan, then in how many days Ravi alone can complete the work?
- (a) 120 days
- (b) 75 days
- (c) 72 days
- (d) 100 days
- (e) 96 days
- Q2. Two pipes A and B can fill a tank in 24 minutes and 32 minutes respectively. If both the pipes are opened simultaneously, after how much time should B be closed so that the tank is full in 18 minutes?
- (a) 6 min
- (b) 8 min
- (c) 10 min
- (d) 11 min
- (e) None of these



- Q3. Two pipes A and B can fill a cistern in 6 minutes and 7 minutes respectively. Both the pipes are opened alternatively, first pipe A and 2nd pipe B for 1 minute each. In what time will they fill the cistern.
- (a) 6 minutes
- (b) $6\frac{2}{3}$ minutes (c) $6\frac{3}{7}$ minutes
- (d) $3\frac{1}{2}$ minutes
- (e) $7\frac{3}{7}$ minutes
- Q4. Efficiency of Asha is 25% more than Usha and Usha take 25 days to complete a piece of work. Asha started the work alone and then Usha joined her 5 days before completion of the work. For how many days Asha worked alone?
- (a) 13 days
- (b) 11 days
- (c) 10 days
- (d) 15 days
- (e) None of these
- Q5. In what time would a cistern be filled by three pipes whose diameters are 2 cm, 3 cm and 4 cm running together, when the largest alone can fill it is 58 minutes? The amount of water flowing per minute in each pipe is proportional to the square of its diameter:
- (a) 36 minutes

- (b) 32 minutes
- (c) 23 minutes
- (d) 28 minutes
- (e) None of these
- Q6. Ravi alone would take 32 hours more to complete a job than both Ravi and Rajesh together. If Rajesh worked alone, he took $12\frac{1}{2}$ hours more to complete it than both Ravi and Rajesh worked together. What time would they take if both Ravi and Rajesh worked together?
- (a) 19 hours
- (b) $6\frac{1}{3}$ hours
- (c) 20 hours
- (d) $7\frac{1}{2}$ hours
- (e) 23 hours
- Q7. Rahul and Ayush together can complete a work in half the time of Veer, while Ayush and Veer together can complete the same work in 1/3 rd time of Rahul. If they together complete the work in 30 days then in how many days Rahul alone can complete the work?
- (a) 120 days
- (b) 150 days
- (c) 90 days
- (d) 100 days
- (e) 140 days







- Q8. Tap A can empty a tank in 6 hours and another tap B can fill the tank at the rate of 15 l/min. If both the taps are opened the tank can be emptied in 10 hours then find the capacity of tank?
- (a) 13,200 ℓ
- (b) 14,500ℓ
- (c) 13,700ℓ
- (d) 13,500ℓ
- (e) 12,240ℓ

- Q9. X takes 4 days to complete one-third of a job, Y takes 3 days to complete one-sixth of the same work and Z takes 5 days to complete half the job. If all of them work together for 3 days and X and Z quit, how long will it take for Y to complete the remaining work done.
- (a) 6 days
- (b) 8.1 days
- (c) 5.1 days
- (d) 7 days
- (e) None of these
- Q10. A, B and C working together completed a job in 10 days. However, C only worked for the first three days when 37/100 of the job was done. Also, the work done by A in 5 days is equal to the work done by B in 4 days. How many days would be required by the fastest worker to complete the entire work?
- (a) 20 days
- (b) 25 days
- (c) 30 days
- (d) 40 days
- (e) None of these

Direction (11-15): What approximate value should come in the place of question (?) mark:

- Q11. 125.09 % of 440.01 + 74.98 % of 839.98 + $\sqrt[3]{7.99}$ = 39.89 ×?
- (a) 40
- (b) 30
- (c) 50
- (d) 60
- (e) 70

$$012. ? \times 128.09 + 1728.09 = (12.99)^3 + 170.99$$

- (a) 2
- (b) 5
- (c) 7
- (d) 9
- (e) 12

Q13.
$$?^3 \times 15.02 + 125 \% \text{ of } 463.94 = (38.01)^2 + 95.98$$

- (a) 2
- (b) 8
- (c) 4
- (d) 12
- (e) 14

Q14.
$$1267.98 + ?^3 = (12.02)^3 + 51.98$$

- (a) 4
- (b) 8
- (c) 10

- (d) 12
- (e) 14

Q15.
$$\frac{?}{14.09}$$
 + (11.97)² - $\sqrt{1936.01}$ = (15.98)²

- (a) 2164
- (b) 2296
- (c) 2118
- (d) 2184
- (e) 2124

Solutions

S1. Ans.(d)

Sol. Time taken by Rohan to complete whole work = $18 \times \frac{5}{3} = 30 days$

Time taken by Raghuveer = $30 \times \frac{5}{6} = 25 \ days$

$$\therefore$$
 Time taken by Ravi $\rightarrow \frac{1}{12} - \left(\frac{1}{25} + \frac{1}{30}\right)$

$$\Rightarrow \frac{1}{12} - \frac{11}{150}$$

$$\Rightarrow \frac{3}{300} = \frac{1}{100}$$

So, Ravi alone will complete the whole work in 100 days.

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S2. Ans.(b)

1 minute work of (A + B)both =
$$\left(\frac{1}{24} + \frac{1}{32}\right)$$

$$= \frac{4+3}{8 \times 12}$$
$$= \frac{7}{96}$$
 minutes

i.e. tank will full in $\frac{96}{7}$ minutes.

Let B is closed after
$$x$$
 minutes
$$\therefore \frac{7x}{96} + \frac{18-x}{24} = 1$$

$$\Rightarrow \frac{7x+72-4x}{96} = 1$$

 $\Rightarrow x = 8 \text{ minutes}$

S3. Ans.(c)

Sol.

Part of the cistern filled by pipe A in 1 minute $=\frac{1}{6}$

Part of the cistern filled by pipe B in 2nd minute $=\frac{1}{7}$

Part of the cistern filled in first 2 minutes = $\frac{1}{6} + \frac{1}{7} = \frac{13}{42}$ Part of the cistern filled in 6 minutes = $\frac{3 \times 13}{42} = \frac{39}{42}$

Remaining part = $1 - \frac{39}{42} = \frac{3}{42} = \frac{1}{14}$

- ∴ Time taken to fill $\frac{1}{14}$ parts by pipe A = $\frac{6}{14} = \frac{3}{7}$
- $\therefore \text{ Total time} = 6 + \frac{3}{7} = 6\frac{3}{7} \text{ minutes}$

S4. Ans.(b)

Sol.

Usha takes 25 days to complete the work.

Since Asha is 25% more efficient, so she will take $\frac{4}{5} \times 25$ i.e. 20 days to complete the work. Let Asha worked alone for x days.

Now,
$$\frac{x}{20} + 5\left(\frac{1}{20} + \frac{1}{25}\right) = 1$$

 $\Rightarrow x = 11 \text{ days.}$

S5. Ans.(b)

Amount of water from three pipes is 4 units, 9 units and 16 units.

Let capacity of cistern be *x* units.

$$\therefore \frac{x}{58} = 16$$

$$\Rightarrow x = 928 \text{ units.}$$

In 1 minute quantity to be filled by 3 pipes = 29 units

∴ Total time required =
$$\frac{928}{29}$$
 = 32 minutes

S6. Ans.(c)

Time taken by both Ravi and Rajesh = $\sqrt{t_1 t_2}$

Here, $t_1 = 32$ hours,

$$t_2 = 12\frac{1}{2} = \frac{25}{2}$$

So, required time =
$$\sqrt{32 \times \frac{25}{2}}$$
 = 20 hours

S7. Ans.(a)

Sol.

Let efficiency of Rahul, Ayush & veer be x, y & z resp.

And we know time is inversely proportional to efficiency

$$\frac{x+y}{z} = \frac{2}{1} = \frac{8}{4}$$

$$\frac{y+z}{x} = \frac{3}{1} = \frac{9}{3}$$

Therefore ratio of efficiency

$$x:y:z=3:5:4$$

total work = 12×30

= 360 unit

Rahul alone can complete the work = $\frac{360}{3}$ = 120 days



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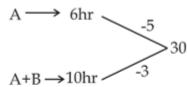
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S8. Ans.(d) Sol.

Time Efficiency



 $\therefore Efficiency of B = 2$

∴ tap B can fill the tank =
$$\frac{30}{2}$$
 = 15 hrs

Capacity of tank = $15 \times 60 \times 15$

= 13500 litre

S9. Ans.(c)

Sol.

x are day work =
$$\frac{1}{12}$$

y are day work = $\frac{1}{18}$
z are day work = $\frac{1}{10}$

Let y take n days to complete remaining work then

$$\frac{3}{12} + \frac{3}{18} + \frac{3}{10} + \frac{n}{18} = 1$$

$$\frac{n}{18} = 1 - \frac{1}{4} - \frac{1}{6} - \frac{3}{10}$$

$$= \frac{60 - 15 - 10 - 18}{60}$$

$$\Rightarrow \frac{n}{18} = \frac{17}{60}$$

$$n = \frac{17 \times 18}{60} = n = 5.1 \text{ days}$$

S10. Ans.(a) Sol.

3 days work =37%

Remaining 63% done by (A+B) in 7 day

So,

A one day's work = 4%

B one day work = 5%

C's 3 days work = 37% - 27% = 10%

So fastest is B and complete work in 20 days.

C's 3 days work =

$$\frac{^{125}}{^{100}} \times 440 + \frac{^{75}}{^{100}} \times 840 + 2 = 40 \times ?$$

$$550 + 630 + 2 = 40 \times ?$$

$$? \approx 30$$

S12. Ans(b)

Sol.

7.
$$? \times 128 + 1728 = (13)^3 + 171$$

 $? \times 128 = 2197 + 171 - 1728$
 $? = \frac{640}{128}$
 $? = 5$

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? = 4

S13. Ans(c) Sol. $?^3 \times 15 + \frac{125}{100} \times 464 = (38)^2 + 96$ $?^3 \times 15 = 1444 + 96 - 580$ $?^3 \times 15 = 960$ $?^3 = 64$

S14. Ans(b) Sol. 1268 + ?³ = (12)³ + 52 ?³ = 1780 - 1268 ?³ = 512 ? = 8

S15. Ans(d) Sol.

 $\frac{?}{14} + 12^2 - \sqrt{1936} = (16)^2$ $\frac{?}{14} = 256 + 44 - 144$ $\frac{?}{14} = 156$? = 2184

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