Pipes & Cistern T&W 3

Practice Exercise

1) Two pipes A and B can fill a tank in 36 hours and 45 hours respectively. If both the pipes are opened simultaneously, how much time will be taken to fill the tank?

a) 20 hours b) 18 hours c) 14 hours d) 10 hours

2) Two pipes can fill a tank in 10 hours and 12 hours respectively while the third pipe empties the full tank in 20 hours. If all the pipes operate simultaneously, in how much time will the tank be filled?

a) 7 hours b) 8 hours c) $7\frac{1}{2}$ hours d) None

3) Fill pipe A is 3 times faster than second Fill pipe B and takes 32 minutes less than Fill pipe B. When will the cistern be full if both pipes are opened together?

a) 25 minutes b) 15 minutes c) 16 minutes d) 12 minutes

4) Pipe A can fill the tank in 2 minutes, Pipe B can fill the tank in 6 mins, In how much time both pipes can fill the tank?

a) 2.5 minutes b) 1.5 minutes c) 3 minutes d) 2 minutes

5) It is known that 9 pipes can fill a tank in 12 days, working 5 hours a day. For how many hours a day should 4 pipes be opened to fill a tank twice in capacity provided that there are only 30 days for the process?

a) 9 hours b) 8 hours c) 10 hours d) 7 hours

6) Pipe A can fill a tank in 30 hours, Pipe B can fill the same tank in 15 hours. If Pipes A, B, and C can fill together in 5 hours. How much time will it take for Pipe C alone to fill the tank?

a) 35 hours b) 20 hours c) 30 hours d) 10 hours

7) Amit can complete a work in 20 days by working 6 hours per day. Sanjay can complete the same work in 25 days by working 8 hours per day. If both of them work together 5 hours per day, in how many days the work will be completed?

a) 10 days b) 7.5 days c) 18 days d) 15 days

8) Pipe A can fill the tank in 16 minutes, Pipe B can fill the same tank 24 minutes. If pipe A, pipe B and pipe C can fill the tank in 6 minutes. In how much time the tank is half-filled by the pipe C alone?

a) 10 minutes b) 30 minutes c) 8 minutes d) None of these

9) A pipe can fill a cistern in 1 hour 12 minutes but due to leakage in the bottom of the cistern, it is filled in 2 hours. If the cistern is full, how long will the leakage take it to empty it? ***[Capgemini 2018]***

a) 150 minutes b) 180 minutes c) 200 minutes d) 120 minutes

10) Three pipes A, B and C can fill a tank independently in 12, 15 and 20 hours respectively. They were operated simultaneously for 4 hours then pipe B was closed. How much more time will the tank take to get full?

a) 2 hours b) 1.8 hours c) 1.5 hours d) 1.6 hours

11) Tap A takes 30 minutes to empty a half-full tank by draining it. It is decided to simultaneously pump water into the half-full tank while draining it. What is the rate at which water has to be pumped in so that it gets filled in 6 minutes completely?

a) 3 times b) 4 times c) 5 times d) 6 times

12) Pipe A can fill a cistern in 10 days, operating 2 hours a day. Pipe B can fill a cistern in 20 days, operating 3 hours a day. How many days will it take to fill the cistern, if both pipe A and B are operated 5 hours a day? ***[Capgemini 2018]***

a) 5 days b) 3 days c) 6 days d) 10 days

13) If two pipes function simultaneously the reservoir will be filled in 12 hours, one pipe fills the reservoir 10 hours faster than the other. How many hours it takes the second pipe to fill the reservoir? ***[Accenture 2018]***

a) 20 hrs b) 15 hrs c) 25 hrs d) 30 hrs

14) A, B and C can do a job in 24 days, 15 days and 60 days respectively working alone. They start working together. A left after 6 days and B left after working for 8 days of the initial day. How many more days are required to complete the whole work?

a) 5 days b) 15 days c) 8 days d) 10 days

15) Amit can finish a piece of work in 5 days whereas Farooq can finish the same work in 20 days, if they start working on alternate days starting with Amit, then In how many days they can complete the work?

a) 8 days b) 4 days c) 6 days d) 10 days

16) A, B and C can do a piece of work in 11 days, 20 days and 55 days respectively, working alone. How soon can the work be done if A is assisted by B and C on every alternate day?

a) 8 days b) 4 days c) 6 days d) 10 days

17) The efficiencies of A and B are in the ratio of 2 : 3. If B can do a piece of work in 60 hours, A can do the same work in?

a) 20 hours b) 30 hours c) 40 hours d) 90 hours

18) Taps A and B can fill a bucket in 12 minutes and 15 minutes respectively. If both are opened and A is closed after 3 minutes. How much further time would it take for B to fill the bucket??

a) 8 mins, 15 sec b) 8 mins, 30 sec c) 5 mins, 15 sec d) 4 mins, 30 sec

19) Farooq and Ahmed can do the work in 45 days and 40 days respectively. They began the work together but Farooq left after some days and Ahmed finished the remaining work in 23 days. After how many days did Farooq leave?

a) 7 days b) 8 days c) 9 days d) 11 days

20) A can do a piece of work in 36 days, B in 24 days and C in 72 days. All the three began the work together but A left after 8 days and B left 12 days before the completion of the work. How many days in all did C put in the entire work was finished?

a) 10 days b) 20 days c) 30 days d) 23 days

Check the Answers

1	**A**	6	**D**	11	**D**	16	**A**
2	**C**	7	**D**	12	**B**	17	**D**
3	**D**	8	**C**	13	**D**	18	**A**
4	**B**	9	**B**	14	**A**	19	**C**
5	**A**	10	**C**	15	**A**	20	**D**