

# **APTITUDE QUIZ**

**1. A cistern can be filled by a tap in 4 hours while it can be emptied by another tap in 9 hours. If both taps are opened simultaneously, then after how much time will the cistern get filled ?**

- A. 5 hours
- B. 4.5 hours
- C. 7.2 hours
- D. 6.5 hours

**2. A pump can fill a tank with water in 2 hours. Because of a leak, it took hours to fill the tank. The leak can drain all the water of the tank in:**

- A. 7 hours
- B. 8 hours
- C. 12 hours
- D. 14 hours

**3. Pipe A can fill a tank in 8 hours and Pipe B can fill it in 6 hours. If both the pipes are opened but after 2 hours pipe A is closed, then the other pipe will fill the tank in**

- A. 6 hours
- B. 3 1/2 hours
- C. 4 hours
- D. 2 1/2 hours

E. None of these

**4. Two pipes A and B can fill a tank in 9 hours and 3 hours respectively. If they are opened on alternate hours and if pipe A is opened first, in how many hours will the tank be full?**

A. 4 hrs

B. 5 hrs

C. 2 hrs

D. 6hrs

**5. A pump takes 8 hours to fill an overhead tank, but due to an open tap in the kitchen, the time taken is 10 hours. In how much time would the kitchen tap empty a full overhead tank?**

A. 20 hours

B. 40 hours

C. 30 hours

D. 60 hours

**6. Pipe A can fill a cistern in 6 hours less than Pipe B. Both the pipes together can fill the cistern in 4 hours. How much time would A take to fill the cistern all by itself?**

A. 1 hour

B. 2 hours

C. 6 hours

D. 8 hours

E. None of these

**7. 12 buckets of water fill a tank when the capacity of each tank is 13.5 liters. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 9 liters?**

A. 8

B. 15

C. 16

D. 18

**8. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 min, then the slower alone will be able to fill the tank in:**

A. 81 min

B. 108 min

C. 144 min

D. 192 min

**9. A tap supplies 8 litres of water per minute into a cistern. A leak at the bottom of the cistern can empty the cistern in 10 hours. A full tank with the tap open is emptied by the leak in 15 hours. What is the capacity of the tank?**

A. 15000 litres

B. 12800 litres

C. 14400 litres

- D. 13400 litres
- E. None of these

**10. Two pipes A and B can fill a cistern in 20 and 30 minutes respectively, and a third pipe C can empty it in 40 minutes. How long will it take to fill the cistern if all the three are opened at the same time?**

- A.  $19 \frac{1}{7}$  min
- B.  $15 \frac{1}{7}$  min
- C.  $17 \frac{1}{7}$  min
- D.  $7 \frac{1}{7}$  min

**11. Bucket A has thrice the capacity as bucket B. It takes 80 turns for bucket A to fill the empty drum. How many turns it will take for both the buckets A and B, having each turn together to fill the empty drum?**

- A. 30
- B. 60
- C. 45
- D. 80

**12. A large tanker can be filled by two pipes A and B in 60 minutes and 40 minutes respectively. How many minutes will it take to fill the tanker from empty state if B is used for half the time and A and B fill it together for the other half?**

- A. 27 min

- B. 30 min
- C. 20 min
- D. 15 min
- E. None of these

**13. Pipe A can fill an empty tank in 12 hours. Pipe B can empty it in 36 hours. If at 8 a.m. the pipe A is opened on an empty water tank and pipe B is opened at 9 a.m., 10 a.m. 11 a.m. and 12 p.m. for 15 minutes each, by what time in the evening will the tank be filled?**

- A. 6 p.m.
- B. 8 p.m.
- C. 9 p.m.
- D. 10 p.m.

**14. Three taps A,B and C can fill a tank in 12,15 and 20 hours respectively. If A is open all the time and B ,C are open for one hour each alternatively, the tank will be full in:**

- A. 6 hrs
- B.  $20/3$  hrs
- C. 7 hrs
- D.  $15/2$  hrs

**15. There are 2 taps A and B to fill up a water tank. The tank can be filled in 40 minutes if both taps are on. The same tank can be filled in 60 minutes if tap A alone is on. How much time will tap B alone take to fill up the same tank ?**

- A. 64 minutes
- B. 80 minutes
- C. 96 minutes
- D. 120 minutes
- E. None of these

**16. 8 taps through which water flows at the same rate can fill a tank in 30 minutes. If two taps go out of order, how long will the remaining taps take to fill the tank?**

- A. 35 minutes
- B. 37 minutes
- C. 40 minutes
- D. 38 minutes

**17. A water tank is two-fifth full. Pipe A can fill a tank in 10 minutes and pipe B can empty it in 6 minutes. If both the pipes are open, how long will it take to empty or fill the tank completely?**

- A. 6 min.to empty
- B. 6 min.to fill
- C. 9 min.to empty
- D. 9 min.to fill
- E. None of these

**18. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank is:**

- A. 60 gallons
- B. 100 gallons
- C. 120 gallons
- D. 180 gallons

**19. Two pipes P and Q can fill a cistern in 12 and 15 minutes respectively. Both are opened together, but at the end of 3 minutes the first is turned off. How much more time will it take to fill the tank by pipe B?**

- A.  $9 \frac{1}{4}$  min
- B.  $11 \frac{1}{4}$  min
- C.  $7 \frac{1}{4}$  min
- D.  $8 \frac{1}{4}$  min
- E. None of these

**20. A cistern has a leak which would empty the cistern in 20 minutes. A tap is turned on which admits 4 liters a minute into the cistern, and it is emptied in 24 minutes. How many liters does the cistern hold?**

- A. 480 liters
- B. 600 liters
- C. 720 liters

D. 800 liters

## ANSWERS

1. C

2. D

3. D

4. B

5. B

6. C

7. D

8. C

9. C

10. C

11. B

12. B

13. C

14. C

15. D

16. C

17. A

18. C

19. D

20. A