

Examrace

AIIMS Logical Reasoning Pipes and Cistern 2021 Part 4 Competitive Exams

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1. One tap can fill a cistern in 2 hours and another can empty the cistern in 3 hours. How long will they take to fill the cistern if both the taps are opened?

- A. 5 Hours
- B. 6 Hours
- C. 7 Hours
- D. 8 Hours

Answer: B

2. A cistern is normally filled in 8 hours but takes two hours longer to fill because of a leak in its bottom. If the cistern is full the leak will empty it in.

- A. 16 hrs
- B. 20 hrs
- C. 25 hrs
- D. 40 hrs

Answer: D

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

- A. 81 min.
- B. 108 min.
- C. 144 min.
- D. 192 min.

Answer: C

4. 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. 15 min
- B. 20 min
- C. 27.5 min
- D. 30 min

Answer: D

5. A tap can fill a tank in 6 hours. After half the tank is filled, three more similar taps are opened. What is the total time taken to fill the tank completely?

- A. 3 hrs 15 min
- B. 3 hrs 45 min
- C. 4 hrs
- D. 4 hrs 15 min

Answer: B

6. 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 and C are open for one hour each alternately, the tank will be full in:

- A. 6 hours
- B. $6\frac{2}{3}$ hours
- C. 7 hours
- D. $7\frac{1}{2}$ hours

Answer: C

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

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

Answer: D

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