APTITUDE QUIZ

1. At what time between 7 and 8 o'clock will the hands of a clock be in the same straight line but, not together?

(A) $5\frac{2}{11}$ **min. past 7**

(B) 5 min. past 7

(C) $5\frac{5}{11}$ **min. past 7**

(D) $5\frac{3}{11}$ **min. past 7**

2. An accurate clock shows 8 o'clock in the morning. Through how may degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?

(A) 150°

(B) 144°

(C) 180°

(D) 168°

3. At what time between 5.30 and 6 will the hands of a clock be at right angles?

(A) $43\frac{7}{11}$ **min. past 5**

(B) $43\frac{5}{11}$ **min. past 5**

(C) 45 min. past 5

(D) 40 min. past 5

4. The reflex angle between the hands of a clock at 10.25 is:

(A) $192\frac{1^0}{2}$

(B) 1800

(C) $197\frac{1^0}{2}$

(D) 195°

5. The angle between the minute hand and the hour hand of a clock when the time is 4.20, is:

(A) 10°

(B) 0°

(C) 20°

(D) 5°

6. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:

(A) 150°

(B) 145°

(C) 160°

(D) 155°

7. At what angle the hands of a clock are inclined at 15 minutes past 5?

(A) 640

(B) $58\frac{1^0}{2}$

(C) $72\frac{1^0}{2}$

(D) $67\frac{1^0}{2}$

8. A watch which gains 5 seconds in 3 minutes was set right at 7 a.m. In the afternoon of the same day, when the watch indicated quarter past 4 o'clock, the true time is:

(A) 4 p.m.

(B) $59\frac{7}{12}$ **min. past 3**

(C) $2\frac{3}{11}$ **min. past 4**

(D) $58\frac{7}{11}$ **min. past 3**

9.At 3:40, the hour hand and the minute hand of a clock form an angle of:

(A) 125°

(B) 120°

(C) 135°

(D) 130°

10. How much does a watch lose per day, if its hands coincide every 64 minutes?

(A) $36\frac{5}{11}$ **min**

(B) $32\frac{8}{11}$ **min**

(C) 96 min.

(D) 90 min.

11. Two pipes A and B can separately fill a cistern in 60 minutes and 75 minutes respectively. There is a third pipe in the bottom of the cistern to empty it. If all the tree pipes are simultaneously opened, then the cistern is full in 50 minutes. In how much time the third pipe alone can empty the cistern?

(A) 80 min

(B) 100 min

(C) 110 min

(D) 120 min

12. 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

13. A pump can fill a tank with water in 2 hours. Because of a leak, it took $2\frac{1}{3}$ hours to fill the tank. The leak can drain all the water of the tank in:

(A) $4\frac{1}{3}$ hrs

(B) 8 hrs

(C) 10 hrs

(D) 14 hrs

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

(A) 3 hrs

(B) 3 hrs 45 min

(C) 4 hrs

(D) 5 hrs 15.

15. 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) 80 min

(B) 108 min

(C) 144 min

(D 180 min

16. 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) 8min to empty

(D) 8 min to fill

(E) None of these

17. A tank is filled in 5 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?

(A) 15 hrs

(B) 25 hrs

(C) 35 hrs

(D)45

(E) None of these

18. Pipe A can fill a tank in 5 hours, pipe B in 10 hours and pipe C in 30 hours. If all the pipes are open, in how many hours will the tank be filled?

(A) 1

(B) 2.5

(C) 3

(D) 3.5

19. A tank is filled by three pipes with uniform flow. The first two pipes operating simultaneously fill the tank in the same time during which the tank is filled by the third pipe alone. The second pipe fills the tank 5 hours faster than the first pipe and 4 hours slower than the third pipe. The time required by the first pipe is:

(A) 6 hrs

(B) 12 hrs

(C) 15 hrs

(D) 30 hrs

20. Pipes A and B can fill a tank in 5 and 6 hours respectively. Pipe C can empty it in 12 hours. If all the tree pipe are opened together, then the tank will be filled in:

(A) $1\frac{13}{17}$ **hours**

(B) $2\frac{8}{11}$ **hours**

(C) $3\frac{9}{17}$ **hours**

(D) $4\frac{1}{2}$ **hours**

ANSWERS

1. C

2. C

3. C

4. C

5. A

6. D

7. D

8. A

9. D

10. B

11. B

12. D

13. D

14. B

15. C

16. A

17. C

18. C

19. C

20. C