Lesson
19

K L E TECHNOLOGICAL UNIVERSITY
DEPARTMENT OF HUMANITIES

PROFESSIONAL APTITUDE AND LOGICAL REASONING

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Time, Speed and Distance – 2

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1. What is the angle between two hands of a clock at 05:36 AM?
(a)108 degree (b) 96 degree (c)102 degree (d) 48 degree

2. On Mars, the clock has 36 hours per day. Natural numbers till 18 are there on the clock. Every hour has 90 minutes. Every minute has 60 seconds. What is the approximate value of the angle between hands of the clock @ 15:50 AM?
(a)112 (b) 111 (c) 209 (d)185

3. After how many minutes two hands of a clock meet?
(a)66 (b) 65 11 /5 (c)65 5 /11 (d)None of these

4. What is the angle between two hands of a clock at 04:12 PM?
(a)84 degree (b)54 degree (c)60 degree (d)None of these

5. At what time between 4 and 5 o'clock will the hands of a watch point in opposite directions?
(a) 54 minutes past 4 (b) (53 + 7/11) minutes past 4
(c) (54 + 8/11) minutes past 4 (d) (54 + 6/11) minutes past 4

6. On Venus, the clock has 36 hours per day. Natural numbers till 18 are there on the clock. Every hour has 90 minutes. Every minute has 60 seconds. What is the approximate value of the angle (in degrees) between hands of the clock @ 15:60 AM?
(a) 73.33 (b) 240 (c) 60 (d)None of these

7. Hands of a clock are meeting after every 65 min. we can conclude that the clock is running
(a) Fast (b) Slow (c) Cannot be determined

8. In 12 hours, how many times the hour and the minutes hands of a clock will be at 00 to each other?
(a) 11 (b) 12 (c) 13 (d) None of these

9. A train 100 meters long takes 6 seconds to cross a man walking at 5 km / h in a direction opposite to that of a train. What is the speed of the train?
(a)55 km / h (b) 15.28 meters /s (c) Both (a) & (b) (d)None of these

10. A train 200 meters long crosses a platform 400 meters long in 15 seconds. What is the speed of the train?
(a) 40 meter / s (b)13.33 meter /s (c)26.66 meter / s (d)None of these

11. A train 0.5 km long crosses a platform 900 meters long in 70 seconds. What is the speed of the train?
(a)12.85 meter /s (b) 20 meter / s (c) 7.14 meter / s (d)None of these

12. A train 540 meter long is moving at a speed of 24 km / hr. How long will it take for the train to cross a man coming from opposite direction at a speed of 3 km /h?

(a)49.5 seconds (b)36 seconds (c)72 seconds (d)27 seconds

13. Two trains are running on a parallel line in the same direction at a speed of 50 km/h and 30 km/h respectively. Given that the faster train crosses a man in the slower train in 18 s, what is the length of the faster train?
(a) 170 m (b) 100 m (c) 98 m (d) 85 m

14. A man can row upstream at 30 km / hr and downstream at 50 km /hr. Find man's rate in still water and rate of current, respectively.
(a)36 , 9 (b)20, 5 (c)10, 40 (d)None of these

15. A boat takes 90 minutes less to travel 36 miles downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 mph, the speed of the stream is:
(a) 2.5 mph (b) 2mph (c) 3mph (d) 4mph

16. A man can row at 5 kmph in still water. If the velocity of current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?
(a) 2.4km (b) 3.6km (c) 7.2km (d) 3km

17. A man can row $7\frac{1}{2}$ km/hr. in still water. If in a river running at 1.5 km an hour, it takes him 50 minutes to row to a place and back, how far off is this place?
(a) 3km (b) 4km (c) 5km (d) 6km

18. City A to City B is a downstream journey on a stream which flows at a speed of 5km/hr. Boats P and Q run a shuttle service between the two cities that are 300 kms apart. Boat P, which starts from City A has a still-water speed of 25km/h. while boat Q, which starts from city B at the same time has a still-water speed of 15km/h. When will the two boats meet for the first and second time?
(a) 7.5 hours and 15 hours (b) 7.5 hours and 18 hours
(c) 8 hours and 18 hours (d) 7.5 hours and 20 hours

19. A man can row half a km against the current in 12 min and returns in 6 min. Find the speed of the current.
(a) 1.25 km/h (b) 1.5 km/h (c) 2.5 km/h (d) 3 km/h

20. On a river, Q is the mid-point between two points P and R on the same bank of the river. A boat can go from P to Q and back in 12 hours, and from P to R in 16 hours 40 min. How long would it take to go from R to P?
(a) 3(1/3) h (b) 5 h (c) 6(2/3) h (d) None of these

Time, Speed & Distance 2 Answers

PALR Lesson Ans Key	
TSD 2	
1	a
2	b
3	c
4	b
5	c
6	b
7	a
8	a
9	c
10	a
11	b
12	c
13	b
14	d
15	c
16	d
17	a
18	a
19	a
20	d