Time, Distance and Work Practice

30 Minutes – (Don't skip any questions)

1) A can complete a project in 20 days and B can complete the same project in 30 days. If A and B start working on the project together and A quits 10 days before the project is completed, in how many days will the project be completed?
   A. 18 B. 27 C. 26.67 D. 16 E. 12

2) Steve traveled the first 2 hours of his journey at 40 mph and the remaining 3 hours of his journey at 80 mph. What is his average speed for the entire journey in mph?
   A. 60 B. 56.67 C. 53.33 D. 64 E. 66.67

3) Jane covered a distance of 340 miles between city A and city taking a total of 5 hours. If part of the distance was covered at 60 miles per hour speed and the balance at 80 miles per hour speed, how many hours did she travel at 60 miles per hour?
   A. $2hrs\ 30mins$ B. $2hrs$ C. $3hrs$ D. $1hrs\ 45mins$ E. $None$

4) Jim travels the first 3 hours of his journey at 60 mph speed and the remaining 5 hours at 24 mph speed. What is the average speed of Jim's travel in mph?
   A. 37.5 B. 42 C. 36 D. 42.5 E. 48

5) Ram, who is half as efficient as Krish, will take 24 days to complete a work if he worked alone. If Ram and Krish worked together, how long (in days) will they take to complete the work?
   A. 18 B. 16 C. 12 D. 10 E. 8

6) The length of a rope, to which a cow is tied, is increased from $19m$ to $30m$. How much additional ground (in sq. meters) will it be able to graze? Assume that the cow is able to move on all sides with equal ease.
   A. 1594 B. 1694 C. 1696 D. 1794 E. 1896

7) The area of a square field is 24200 $sq.m$. How long will a lady take to cross the field diagonally at the rate of 6.6 km/hr?
   A. $1min\ 45sec$ B. $2min$ C. $2min\ 30sec$ D. $3min$ E. $4min$

8) A wheel of a car of radius $21\ cms$ is rotating at $600\ RPM$. What is the speed of the car in km/hr?

A. 3.96 B. 7.92 C. 39.6 D. 47.52 E. 75.2

9) A man riding a cycle at $12\ km/hr$ can reach a village in $4\frac{1}{2}\ hours$. If he is delayed by $1\frac{1}{2}\ hours$ at the start, then in order to reach his destination in time, he should ride with a speed of

A. $15\ km/hr$ B. $16\ km/hr$ C. $18\ km/hr$ D. $20\ km/hr$ E. $25\ km/hr$

10) Renu rides at the rate of $10\ km/hr$ but stops for $10\ minutes$ to take rest at her end of every $15\ km$. How many hours will she take to cover $100\ km$?

A. 10 B. 11 C. $11\frac{1}{6}$ D. 12 E. 13

11) The ratio between the rates of walking of A and B is $3:4$. If the time taken by B to cover a certain distance is $48\ minutes$, the time taken (in minutes) by A to cover that distance is

A. 21 B. 27 C. 36 D. 64 E. $None$

12) A certain distance is covered in certain time. If half of this distance is covered in double the time, the ratio of the two speeds is:

A. $4:1$ B. $1:4$ C. $2:1$ D. $1:2$ E. $1:8$

13) A is twice as fast as B and B is thrice as fast as C. The journey covered by C in $42\ minutes$ will be covered by A in how many minutes

A. 7 B. 14 C. 28 D. 45 E. 54

14) Two buses travel to a place at $45\ km/hr$ and $60\ km/hr$ respectively. If the second bus takes $5\frac{1}{2}\ hours$ less than the first for the journey, the length of the journey (in km) is:

A. 900 B. 945 C. 990 D. 1350 E. $None$

15) A car travels a distance of $840\ km$ at a uniform speed. If the speed of the car is $10\ km/hr$ more, then it takes $2\ hours$ less to cover the same distance. The original speed of the car (in km/hr) is;

A. 45 B. 50 C. 60 D. 75 E. 80