



### MATHS

### BOOKS - IBPS & SBI PREVIOUS YEAR PAPER

## TIME, SPEED & DISTANCE (BOAT & STREAM)



**1.** The speed of a boat when travelling downstream is 32 kmph whereas when travelling upstream it is 28 kmph . What is the speed of the boat in still water ?

A. 27 Kmph

B. 29 Kmph

C. 31 Kmph

D. None of these

Answer: D



2. Yesterday Priti typed an essay of 5000 words at the speed of 60 words per minute . Today she typed the same essay faster and her speed was 15% more than yesterday . What is the approximate difference in the time she took to type yesterday and the time she took to type today ?

A. 20 minutes

B. 30 minutes

#### C. 10 minutes

D. 40 minutes

#### Answer: C



**3.** The average speed of a train is 3 times the average speed of a car . The car covers a distance of 520 kms in 8 hours . How much distance will the train cover in 13 hours ?

#### A. 2553 km

B. 2585 km

C. 2355 km

D. 2535

#### Answer: D



**4.** Yesterday Shweta completed 300 units of work at the rate of 15 units per minute . Today she completed the same units of work but her

speed was 40% faster than yesterday . What is the approximate difference in the time she took to complete the work yesterday and the time she took today ?

A. 16 minutes

B. 26minutes

C. 46 minutes

D. 6 minutes

Answer: D

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**5.** A truck covers a certain distance in 12 hours at the speed of 70km/hr . What is the average speed of a car which travels a distance of 120 km more than the truck in the same time ?

A. 56km/hr.

B. 75km/hr.

C. 82 km/hr.

D. None of these

#### Answer: D





6. A 420-metre long train crosses a pole in 70

seconds . What is the speed of the train ?

A. 5 m/s

B. 7 m/s

C. 4.5 m/s

D. None of these

#### Answer: D

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**7.** Neeraj , Manoj and Geeta start running around a circular stadium and complete one round in 10 seconds , 6 seconds and 14 seconds respectively . In how much time will they meet again at the starting point ?

A. 3 minutes 30 seconds

- B. 2 minutes 28 seconds
- C. 4 minutes 45 seconds
- D. 1 minute 40 seconds

#### Answer: A



8. Meghna travelled 3.36 km in four weeks by walking an equal distance each day . How many meters does she walk each day ?

A. 100 m

B. 60 m

C. 140 m

D. 120 m

#### Answer: D



**9.** A truck covers a distance of 256 km at the speed of 32 km/hr . What is the average speed of a car which travels a distance of 160 km more than the truck in the same time ?

A. 46km/ $h^{-1}$ 

B. 52 km/ $h^{-1}$ 

C. 49km/ $h^{-1}$ 

D. 64 km/ $h^{-1}$ 

Answer: B

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**10.** A truck covers a distance of 330 km at the speed of 30km/hr . What is the average speed of a car which travels a distance of 110 km more than the truck in the same time ?

A. 42 km/hr

B. 48km/hr

C. 39km/hr

D. None of these

#### Answer: D

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**11.** Gulshan , Shakti and Om start running around a circular stadium and complete one round in 14 sec , 8 sec and 15 sec respectively .

In how much time will they meet again at the

starting point ?

A. 23 min

B. 14 min

C. 13 min

D. 21 min

Answer: B



12. Anu walks 2.31 km in three weeks by walking an equal distance each day . How many metres does she walk each day ?

A. 110 m

B. 90 m

C. 140 m

D. 120 m

Answer: A



**13.** A man riding a bicycle completes one lap of a square field along its perimeter at the speed of 43.2km/hr in 1 minute 20 seconds . What is the area of the field ?

A. 52900 sq. m

B. 57600 sq m

C. 48400 sq m

D. Cannot be determined

Answer: B

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# **14.** A 360-metre-long train crosses a platform in 120 seconds. What is the speed of the train

A. 3 m/s

?

B. 5 m/s

C. 4.5 m/s

D. Cannot be determined

#### Answer: D



**15.** A truckcovers a distance of 640 km in 10 hr. A car covers the same distance in 8 hr . What is the ratio of the speed of the truck to that of the car ?

- A. 3:4
- B. 1:2
- C.5:6
- D. None of these

#### Answer: D



**16.** A man riding a bicycle completes one lap of a circular field along its circumference at the speed of 14.4 km/hr in 1 minute 28 seconds . What is the area of the field ?

A. 7958 sq mt

B. 9856 sq mt

C. 8842 sq mt

D. Cannot be determined

#### Answer: B

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**17.** Haris , Dilip and Asha start running around a circular stadium and complete one round in 27 seconds , 9 seconds and 36 seconds respectively . In how many time will they meet again at the starting point ?

A. 1 min 48 sec

B. 2 min 36 sec

C. 3 min 11 sec

D. 2 min 25 sec

Answer: A

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**18.** A truck covers a distance of 360 km in 8 hours . A car covers the same distance in 6 hours . What is the respective ratio between the speed of the truck and the car ?

A. 3:5

B. 3:4

C.1:2

D. 4:5

Answer: B



**19.** Parag walks 226 metres everyday . How many kilometres will he walk in five weeks ?

A. 6.57

B. 7.91

C. 8.23

D. 9.41

Answer: B



**20.** A 240-metre long train crosses a platform twice its length in 2 minutes . What is the speed of the train ?

A. 8 m/s

B. 4 m/s

C. 6 m/s

#### D. Cannot be determined

Answer: C

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**21.** A man riding a bicycle , completed one lap of a circular field along its circumference at

the speed of 79.2 km/hr in 2 minutes 40

#### seconds . What is the area of the field ?

A. 985600 sq metre

B. 848500 sq metre

C. 795600 sq metre

D. Cannot be determined

Answer: A

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**22.** Riya , Manasvi and Pintu start running around a circular stadium and complete one round in 24 seconds , 6 seconds and 14 seconds respectively . In how much time will they meet again at the starting point ?

- A. 1 min 32 seconds
- B. 4 min 8 seconds
- C. 3 min 25 seconds
- D. 2 min 48 seconds

Answer: D



**23.** A wheel of a motor bike has radius 35 cm . How many revolutions per minute must the wheel make so that the speed of the bike is 33 km/hr ?

A. 300

B. 250

C. 200

D. 220

#### Answer: B



**24.** Amit and Sujit together can complete an assignment of data entry in five days . Sujit's speed is 80% of Amit's speed and the total key depressions in the assignment are 5,76,000. what is Amit's speed in key depressions per hour if they work for 8 hours a day ?

#### A. 4800

B. 6400

#### C. 8000

D. 7200

#### Answer: C

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**25.** A car covers a certain distance in 3 hours at the speed of 124 kms/hr . What is the average speed of a truck which travels a distance of 120 kms less than the car in the same time ?

A. 88 kms/hr.

- B. 84kms/hr.
- C. 78 kms/hr.
- D. 73 kms/hr.

#### Answer: B



**26.** A truck covers a distance of 368 km at a certain speed in 8 hours . How much time would a car take at an average speed which is

18km/hr more than of the speed of the truck

to cover a distance which is 16 km more than

that travelled by the truck?

A. 7 hrs

B. 5 hrs

C. 6 hrs

D. 8 hrs

Answer: C

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**27.** A 210 m long train takes 6 s to cross a man running at 9km/h in a direction opposite to that of the train . What is the speed of the train ? (in km/h)

A. 127

B. 121

C. 117

D. 108

#### Answer: C

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**28.** An aeroplane flies with an average speed of 756 km/h . A helicopter takes 48 h to cover twice the distance covered by aeroplane in 9 h . How much distance will the helicopter cover in 18 h ? (Assuming that flights are non-stop and moving with uniform speed)

A. 5010 km

B. 4875 km

C. 5760 km

D. 5103 km

#### Answer: D



**29.** Three persons start walking together and their steps measure 40 cm , 42 cm and 45 cm respectively . What is the minimum distance each should walk so that each can cover the same distance in complete steps ?

A. 25 m 20 cm

B. 50 m 40 cm

C. 75 m 60 cm

D. 100 m 80 cm

#### Answer: A



**30.** Wheels of diameters 7 cm and 14 cm start rolling simultaneously from X and Y, which are 1980 cm apart , towards each other in opposite directions. Both of them make the same number of revolutions per second. If

both of them meet after 10 seconds , the

speed of the smaller wheel is :

A. 22 cm/sec

B. 44 cm/sec

C. 66 cm/sec

D. 132 cm/sec

Answer: C

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**31.** An aeroplane takes off 30 minutes later than the scheduled time and in order to reach its destination 1500 km away in time , it has to increse its speed by 250km/h from its usual speed . Find its usual speed .

A. 1000 km/h

B. 750 km/h

C. 850 km/h

D. 650 km/h

Answer: B



**32.** A farmer travelled a distance of 61 km in 9 hrs . He travelled partly on foot at the rate of 4 km/hr and partly on bicycle at the rate of 9 km/hr . The distance travelled on foot is

A. 17 km

B. 16 km

C. 15 km

D. 14 km

## Answer: B



**33.** Walking at the rate of 4 kmph a man covers certain distance in 2hrs 45 min . Running at a speed of 16.5 kmph the man will cover the same distance in how many minutes ?

A. 35 min.

B. 40 min.

C. 45 min.

D. 50 min.

Answer: B

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**34.** A train runs at an average speed of 75 km/hr . If the distance to be covered is 1050 Km . How long will the train take to cover it ?

A. 13 hrs

B. 12 hrs

C. 14 hrs

D. 15 hrs

#### Answer: C



**35.** A train leaves station X at 5 a.m. and reaches station Y at 9 a.m. Another train leaves station Y at 7 a.m. and reaches station X at 10:30 a.m. At what time do the two trains cross each other ?

A. 7: 36 am

B. 7:56 am

C. 8: 36 am

D. 8:56 am

**Answer: B** 

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**36.** A boat running upstream takes 8 hours 48 minutes to cover a certain distance , while it takes 4 hours to cover the same distance

running downstream . What is the ratio between the speed of the boat and speed of water current respectively ?

- A. 2:1
- B. 3:2
- C. 8:3
- D. Cannot be determined

# Answer: C

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**37.** A car travels a distance of 560 km in 9.5 hours partly at a speed of 40 km  $h^{-1}$  and partly at 160  $kmh^{-1}$  . What is the distance it travel at the speed of 160 km  $h^{-1}$  ?

A. 120 km

B. 240 km

C. 320 km

D. 360 km

Answer: B

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**38.** A 320 metre long train crosses a pole in 16 seconds . It stops five times of duration 18 minutes each . What time will it take in covering a distance of 576 km ?

### A. 9 hours

B. 
$$9\frac{1}{4}$$
 hours  
C.  $9\frac{1}{2}$  hours  
D.  $8\frac{1}{2}$  hours

Answer: C

**39.** Three wheels can completed respectively 60, 36, 24 revolutions per minute . There is a red spot on each wheel that touches the ground at time zero . After how much time , all these spots will simultaneously touch the ground again ?

A. 5/2 seconds

B. 5/3 seconds

C. 5 seconds

# D. 7.5 seconds

#### Answer: C

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**40.** A train after travelling 150 km meets with an accident and proceeds t  $\frac{3}{5}$  of its former speed and arrives at its destination 8 hours late. Had the accident occurred 360 km further, it would have reached the destination 4 hours late. What is the total distance travelled by the

train?

A. 840 km

B. 960 km

C. 870 km

D. 1100km

Answer: C

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**41.** A 180-metre long train crosses another 270metre long train running in the opposite direction in 10.8 seconds . If the speed of the first train is 60 kmph ,what is the speed of the second train in kmph ?

A. 80

B. 90

C. 150

D. Can't be determined

**Answer: B** 

**42.** Deepa rises her bike at an average speed of 30 km/hr and reaches her destination in 6 hrs . Hema covers the same distance in 4 hrs . If Deepa increases her average speed by 10km/hr and Hema increases her average speed by 5 km/hr , what would be the difference in their time taken to reach the destination ?

A. 54 minutes

B.1hour

# C. 40 minutes

D. 45 minutes

#### Answer: A



**43.** A man starts going for morning walk every day . The distance walked by him on the first day was 2 km . Everyday he walks half of the distance walked on the previous day . What

can be the maximum total distance walked by

him in his lifetime?

A. 4 km

B. 20 km

C. 8 km

D. Data inadequate

Answer: A

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**44.** The distance between two cities A and B is 330 km . A train starts from A at 8 a.m. travels towards B at 60km/hr .

Another train starts from B at 9 a.m. and travels towards A at 75 km/hr . At what time do they meet ?

A. 10:30 am

 $\mathsf{B}.\,10\!:\!45\,\mathsf{am}$ 

C. 11 am

D. 11:25 am

## Answer: C



**45.** A , B and C start at the same direction to run around a circular stadium . A complete a round in 252 seconds , B in 308 seconds and C in 198 seconds , all starting at the same point . After what time they meet again at the starting point ?

A. 15 minutes 15 seconds

B. 42 minutes 30 seconds

C. 42 minutes

D. 46 minutes and 12 seconds

Answer: D

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**46.** A man rows 750 m in 775 seconds against the stream and return in  $7\frac{1}{2}$  minutes . What is rowing speed in still water ?

A. 4.7 km/hr

B.4 km/hr

C. 3.5 km/hr

D. 6 km/hr

Answer: A

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47. A train travels at a speed of 40 km/hr and

another train at a speed of 20 m/s. find ratio

of speed of the first train to that of the second

# train ?

- A. 2:1
- B. 5:9
- C.5:3
- D. 9:5

## Answer: B



**48.** Two trains of length 110 m and 90 m are running on parallel lines in the same direction with a speed of 45 km/h and 50km/h respectively . In what time will they pass other ?

A. 136 s

B. 138 s

C. 142 s

D. None of these

Answer: D



**49.** A man rows 25 km downstream and 20 km upstream taking 5 h each time . What is the velocity of the current ?

A. 1 km/h

B. 2.5 km/h

C. 3.5 km/h

D. None of these

Answer: D

**50.** A car driver travels from the plains to a hill station, which are 200 km apart at an average speed of 40 km/h. In the return trip he covers the same distance at an average speed of 20 km/h. The average speed of the car over the entire distance of 400 km is

A. 16.56 km/h

B. 17.89 km/h.

C. 26.67 km/h.

D. 35 km/h.

### Answer: C

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**51.** The speed of a truck is  $\frac{1}{3}$  rd the speed of a train . The train covers 1230 km is 5 hours . What is the speed of the truck ?

A. 85 km/hr

B. 82km/hr

C. 81 km/hr

D. 87 km/hr

## Answer: B



52. A train crossed a platform in 43 seconds .

The length of the train is 170 metres . What is

the speed of the train ?

A. 233 km./hr

B. 243 km./hr

C. 265 km./hr

D. Cannot be determined

### Answer: D

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**53.** Car 'A' travels at the speed of 65 km/hr and reaches its destination in 8 hours . Car B travels at the speed of 70 km/hr and reaches its destination in 4 hours . What is the ratio of

the distance covered by car A and B

respectively?

A. 11:7

B. 7:13

C. 13:7

D. 7:11

Answer: C

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**54.** The speed of the boat in still water is 5 times the speed of the current . It takes 1.1 hours to row to point B from point A downstream . The distance between point A and point B is 13.2 km . How much distance will it cover in 312 minutes upstream ?

A. 43.2 km

B. 48 km

C. 41.6 km

D. 44.8 km

# Answer: C



**55.** Ashok left from place A for place B at 8 a.m. and Rahul left place B for place A at 10.00 a.m. the dis-tance between place A and B is 637 km. If Ashok and Rahul are travelling at a uniform speed of 39kmph. and 47 kmph respectively, at what time wilt they meet? 5:30 b. 4:30 c. 5 pm d. 4 pm A. 5:30 pm

B. 4: 30 pm

C. 5:00 pm

D. 4:00 pm

Answer: B

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**56.** A boy goes to school from his home at a speed of 4 km/hr and returns at a speed of 6km/hr . If in total he took 5 hours in going

and coming back, the distance between his

house and school?

A. 8 km

B. 10 km

C. 12 km

D. 14 km

Answer: C



**57.** Without stopping the speed of the train is 120 kmph , with stopping the speed of the train is 80 kmph . Find the stop time of the train ?

A. 10 m

B. 15 m

C. 20 m

D. 25 m

#### Answer: C



**58.** A journey of 800 km is done in a total of 10 hours . If 320 km is travel by train and remaining by bus . The same journey is done in 8 hours if 240 km is travel by train and remaining is done by bus . Find the ratio of the speed of the speed of train to bus .

A. 2:11

B. 3:11

C. 1:11

## D. 4:11

### Answer: C

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**59.** A man can row 30 km upstream and 44 km downstream in 10 hrs . Also , he can row 40 km upstream and 55 km downstream in 13 hrs . Find the speed of the man in still water .

A. 5 km/hr

B. 8 km/hr

C. 10 km/hr

D. 12 km/hr

Answer: B

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**60.** A car covers first 10 km with 40 km/hr next 10 km with 60 km/hr and next 10 km in 20 km/hr . What is the average speed of the car .
A. 320/11

B. 330/11

C. 350/11

D. 360/11

Answer: D

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**61.** A truck covers a distance of 376 km at a certain speed in 8 hours . How much time would a car take at an average speed which is

18 kmph more than that of the speed of the truck to cover a distance which is 14 km more than that travelled by the truck ?

A. 6 hours

B. 5 hours

C.7 hours

D. 8 hours

Answer: A

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62. Two trains are moving in opposite direction of 60 km/hr and 90 km/hr . Their lengths are 1.10 km and 0.9 km respectively . The time taken by the slower train to cross the faster train in seconds is :

A. 58 sec

B. 50 sec

C. 48 sec

D. 56 sec

### Answer: C





**63.** An inspector is 228 meter behind the theif . The inspector runs 42 meters and the thief runs 30 meters in a minute . In what time the inspector catch the thief ?

A. 19 minutes

B. 20 minutes

C. 18 minutes

D. 21 minutes

# Answer: A



**64.** Ashok can row upstream at 8 kmph and downstream 12 kmph . What is the speed of the stream ?

A. 6km/hr

B. 3 km/hr

C. 2 km/hr

D. 4 km/hr

# Answer: C



**65.** Ashwin has to travel from one point to another point in a certain time . Travelling at a speed of 6 kmph he reaches 40 m late and travelling at a speed of 8 kmph he reaches 12 m earlier . What is the distance between this two points ?

# A. 27 km

B. 18 km

C. 5 km

D. 21 km

### Answer: D

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**66.** Two trains A and B start from two places P and Q towards Q and P respectively . After passing each other they take 4 hours 48 minutes and 3 hours and 20 minutes to reach Q and P respectively . If the train from P is moving at 45 km/h then find the speed of other train .

A. 69 km/h

B. 74km/h

C. 54km/h

D. 64 km/h

Answer: C

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**67.** Two cities A and B are at a distance of 60 km from each other . Two persons P and Q start from First city at a speed of 10km/hr and 5km/hr respectively . P reached the second city B and returns back and meets Q at Y . Find the distance between A and Y .

A. 30 km

B. 40 km

C. 50 km

D. 55km

### Answer: B



68. Total distance between A and B is d kms. If the distance travelled along the stream is three time of the total distance and the distance travelled against the stream is two times of the total distance. If the time taken to cover the distance along the stream is 10% less then the time taken to cover the distance against the stream .if a person cover a

distance of 21 km in 1 hr 24 min along the

### stream, then find the rate of current?

A. 2 km /hr

B. 3 km/hr

C.1 km/hr

D. 4 km/hr

Answer: B



**69.** Calculate the difference in the original time taken as given above in condition to meet train A and B and the time taken by train B to catch train A if the train A had started in same direction as that of B . Train B had started in same direction started 2 hrs after train A while going in same direction .

A. 45 hrs 40 min.

B. 24 hrs 20 min.

C. 55 hrs . 30 min.

D. 49 hrs . 45 min.

#### Answer: D

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**70.** What is the ratio of relative speed of both the trains while travelling towards the same direction and while travelling towards the same direction and while travelling towards opposite direction ?

A. 10:1

B. 9:2

**C**. 1: 10

D. 10:3

### Answer: C

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**71.** A boat can travel 9.6 km downstream in 36 min . If speed of the water current is 10% of the speed of the boat in downstream . How

much time will boat take to travel 38.4 km upstream.

A. 2 hours

B. 3 hours

C. 1.25 hours

D. 1.5 hours

Answer: B

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**72.** Train A completely crosses train B which is 305 m long in 24 second. If they are travelling in opposite direction and sum of speed of both are 25 m/s., then find the difference (in meter) between lengths of both trains .

A. 5 B. 6

C. 8

D. 10

Answer: D

**73.** A train is 216 m long . It crosses a platform in 19 seconds with speed 21 m/s . If some 21 m long coaches are added in train and it crosses same platform , then it takes 26 seconds to cross the platform at same speed . How many coaches were added to the train ?

A. 7

B. 10

C. 12

D. 5

#### Answer: A

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**74.** A man can row at 5 km/hr in still water . If the river is running at 1km/hr it takes him 75 minutes to row to a place and back How far is the place ?

A. 2.5 km

B. 3 km

C. 4 km

D. 5 km

Answer: B

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**75.** Sum of the length of two trains P and Q is 330 . The ratio of the speeds of P and Q is 5:8. Ratio between time to cross an electric pole by

P and Q is 4:3. Find the difference in the

length of two trains .

A. 50

B. 30

C. 40

D. 75

Answer: B



**76.** A boat covers 18 km downstream in 3 hours . If speed of current is  $33\frac{1}{3}\%$  of its downstream speed . In what time will it cover a distance of 50 km upstream ?

A. 50 hour

B. 40 hour

C. 30 hour

D. 25 hour

Answer: D



77. Two trains , 100 km apart , travel towards each other on the same track. One train travels at 40 km/hr. the other travels at 60 km/hr . A bird starts flying at a speed of 90 km/hr, at the same location of the faster train . When it reaches the slower train , it turns around and flies in the opposite direction at the same speed . when it reaches the faster train, again it turns around and so on . When the two trains collide, how far has the bird flown?

A. 90 km

B. 45 km

C. 180 km

D. 135km

Answer: A



**78.** The length of the two trains are 60 m and 90 m. They are running at the speed of 58 km/hr and 50 km/hr respectively on parallel

tracks in opposite direction . In how many

seconds will they pass each other .?

A. 10

B. 8

C. 5

D. 3

Answer: C



**79.** The upstream speed of a boat is 9 km/hr which is 300% more than the speed of stream . Find how much distance boat will cover in 5 hours while travelling in downstream .

A. 66 km

B. 65.5 km

C. 67.5 km

D. 68 km

Answer: C





**80.** A train having speed of 36 km/hr crossing a pole in 15 sec and a platform in 42 sec . Find the length of platform ?

A. 250 m

B. 270 m

C. 330 m

D. 310 m

#### Answer: B



**81.** If the sum of upstream and downstream speed is 24 km/hr and the speed of the current is 2 km/hr . Then find the time taken to cover 35 km in downward ?

A. 2 hr

- B. 2.5 hr
- C. 3 hr
- D. 3.5 hr

# Answer: B



**82.** The difference between downstream speed and upstream speed of boat is 8 km/hr and boat travels 90 km from A to B (downstream) in 6 hours . Then find the speed of boat in still water ?

A. 11 km/hr

B. 18 km/hr

C. 20 km/hr

D. 16 km/hr

# Answer: A



**83.** A train of some length passes the platform of length 400 m in 45 seconds . Find the length of train if the speed of train is 66 km/hr

A. 476 m

B. None of these

C. 428 m

D. 410 m

Answer: D

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**84.** The speed of a boat in still water is 12 kmph . If the boat covers 36 km upstream in 4 hours , what is the speed of stream ?

A. 3 km/hr

B.4 km/hr

C. 5 km/hr

D. 2 km/hr

Answer: A

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**85.** Two friends P and Q are running in opposite direction from A to B and another from B to A . Speed of P is 8/5 of speed of Q .

After meeting each other, if P takes 3.5 hours

to reach B then what will be the time taken by

Q to reach A after meeting ?

A. 8.96 hours

B. 9 hours

C. 9.20 hours

D. 10 hours

Answer: A

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**86.** A man can swim at 8 kmph in still water. He covers an equal distance of 18 km both in upstream and downstream between two points in 6 hours. Find the speed of stream .

A. 5 km/h

B. 6 km/h

C. 7 km/h

D. 4 km/h

# Answer: D

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**87.** Train A of length 240 m can cross a platform of length 480 m in 36 second. The ratio of speed of Train A and Train B is 4:5. Then find the length of Train B if Train B can cross a pole in 24 seconds .

A. 560 m

B. 600 m

C. 640 m

D. 700 m

# Answer: B



**88.** Uday can cover X distance with Y speed in Z time . He can cover same distance with Y + 10 =speed in (Z-2) time . He can cover same distance X with Y -15 speed in (Z + 6) time . What can be found from the given data. (i) time to cover 200 km with speed Y + 10 (ii) distance covered in (Z + 6) time (Y + 10)speed

(iii) speed by which a tunnel can be crossed in

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rac{Z}{2} hour
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(iv) Ratio between time to cover distance X

with speed Y to time to cover distance (X-5)

with speed (Y + 10)

A. Only (ii)

B. Only (ii) and (iii)

C. Only (i) and (iii)

D. Only (i), (ii) and (iv)

#### Answer: D


**89.** Two express trains EMU and DMU cross each other in 15 seconds when they move towards each other . Speed of train EMU and train DMU is 80 km/hr and 64 km/hr respectively . Length of train EMU is 150 metre more than length of train DMU.

ightarrow Which of the following can be obtained from the above given information .

(i) Time taken by train DMU to cross a man moving in same direction as of train DMU .

(ii) Time taken by train EMU to cross a platform of half of its length.(iii) Length of train EMU .

(iv) Speed of another train MEMU whose length is equal to average of length of train EMU and DMU.

A. (i) and (iii)

B. (i) , (ii) and (iii)

C. (ii) and (iii)

D. All (i) , (ii) , (iii) and (iv)

Answer: C

**90.** A boat goes 30 km downstream and while returning covered only 80% of distance that covered in downstream . If boat takes 4 hr more to cover upstream than downstream then find the speed of boat in still water (km/hr) if speed of stream is  $\frac{25}{36}$  m/sec ?

A. 8 km/hr

B. 2.8 km/hr

C. 5.6 km/hr

## D. 4.2 km/hr

## Answer: C

## Watch Video Solution

**91.** Train A can cross a man in 8 sec and a 180 m long platform P in 17 sec . If train A cross train B which is running in opposite direction at speed of 108 km/hr in 8 sec , then find time taken by train B to cross platform P ?

A. 16 sec

B. 11 sec

C. 12 sec

D. 14 sec

## Answer: C

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