# QUESTIONS ASKED IN PREVIOUS SSC EXAMS

## TYPE–I

**1.** A train is travelling at the rate of 45km/hr. How many seconds it will take to cover a distance of $\frac{4}{5}$ km ?

(1) 36 sec. (2) 64 sec.
(3) 90 sec. (4) 120 sec.
(SSC CGL Prelim Exam. 04.07.1999 (Second Sitting)

**2.** An aeroplane covers a certain distance at a speed of 240 km hour in 5 hours. To cover the same distance in $1\frac{2}{3}$ hours, it must travel at a speed of :

(1) 300 km./hr. (2) 360 km./hr.
(3) 600 km./hr. (4) 720 km./hr.
(SSC CGL Prelim Exam. 04.07.1999 (Second Sitting)

**3.** A man walking at the rate of 5 km/hr. crosses a bridge in 15 minutes. The length of the bridge (in metres) is :

(1) 600 (2) 750
(3) 1000 (4) 1250
(SSC CGL Prelim Exam. 27.02.2000 (First Sitting)

**4.** A man crosses a road 250 metres wide in 75 seconds. His speed in km/hr is :

(1) 10 (2) 12
(3) 12.5 (4) 15
(SSC CGL Prelim Exam. 27.02.2000 (Second Sitting)

**5.** An athlete runs 200 metres race in 24 seconds. His speed (in km/hr) is :

(1) 20 (2) 24
(3) 28.5 (4) 30
(SSC CGL Prelim Exam. 24.02.2002 (First Sitting)

**6.** A car goes 10 metres in a second. Find its speed in km/hour.

(1) 40 (2) 32
(3) 48 (4) 36
(SSC CGL Prelim Exam. 24.02.2002 (Second Sitting)

**7.** A car travelling at a speed of 40 km/hour can complete a journey in 9 hours. How long will it take to travel the same distance at 60 km/hour ?

(1) 6 hours (2) 3 hours
(3) 4 hours (4) $4\frac{1}{2}$ hours
(SSC CGL Prelim Exam. 11.05.2003 (Second Sitting)

**8.** A man travelled a certain distance by train at the rate of 25 kmph. and walked back at the rate of 4 kmph. If the whole journey took 5 hours 48 minutes, the distance was

(1) 25 km (2) 30 km
(3) 20 km (4) 15 km
(SSC CGL Prelim Exam. 08.02.2004 (First Sitting)

**9.** A boy goes to his school from his house at a speed of 3 km/hr and returns at a speed of 2 km/hr. If he takes 5 hours in going and coming, the distance between his house and school is :

(1) 6 km (2) 5 km
(3) 5.5 km (4) 6.5 km
(SSC CGL Prelim Exam. 08.02.2004 (Second Sitting)

**10.** A boy runs 20 km in 2.5 hours. How long will he take to run 32 km at double the previous speed ?

(1) 2 hours (2) $2\frac{1}{2}$ hours
(3) $4\frac{1}{2}$ hours (4) 5 hours
(SSC CPO S.I. Exam. 26.05.2005)

**11.** A train is moving with the speed of 180 km/hr. Its speed (in metres per second) is :

(1) 5 (2) 40
(3) 30 (4) 50
(SSC CGL Prelim Exam. 13.11.2005 (First Sitting)

**12.** A man riding his bicycle covers 150 metres in 25 seconds. What is his speed in km per hour ?

(1) 25 (2) 21.6
(3) 23 (4) 20
(SSC CGL Prelims Exam. 24.02.2002 (Middle Zone) & (SSC CGL Prelim Exam. 13.11.2005 (IInd Sitting)

**13.** A and B travel the same distance at speed of 9 km/hr and 10 km/hr respectively. If A takes 36 minutes more than B, the distance travelled by each is

(1) 48 km (2) 54 km
(3) 60 km (4) 66 km
(SSC SAS Exam. 26.06.2010 (Paper-1)

**14.** A person started his journey in the morning. At 11 a.m. he covered $\frac{3}{8}$ of the journey and on the same day at 4.30 p.m. he covered $\frac{5}{6}$ of the journey. He started his journey at

(1) 6.00 a.m. (2) 3.30 a.m.
(3) 7.00 a.m. (4) 6.30 a.m.
(SSC CGL Prelim Exam. 04.02.2007 (Second Sitting)

**15.** The speed of a bus is 72 km/hr. The distance covered by the bus in 5 seconds is

(1) 100 m (2) 60 m
(3) 50 m (4) 74.5 m
(SSC CHSL DEO & LDC Exam. 21.10.2012 (Ist Sitting)

**16.** Two men start together to walk a certain distance, one at 4 km/h and another at 3 km/h. The former arrives half an hour before the latter. Find the distance.

(1) 8 km (2) 7 km
(3) 6 km (4) 9 km
(SSC CHSL DEO & LDC Exam. 21.10.2012 (Ist Sitting)

**17.** A train starts from a place A at 6 a.m. and arrives at another place B at 4.30 p.m. on the same day. If the speed of the train is 40 km per hour, find the distance travelled by the train ?

(1) 420 km (2) 230 km
(3) 320 km (4) 400 km
(SSC CHSL DEO & LDC Exam. 28.10.2012 (Ist Sitting)

**18.** Walking at the rate of 4 km an hour, a man covers a certain distance in 3 hours 45 minutes. If he covers the same distance on cycle, cycling at the rate of 16·5 km/hour, the time taken by him is
(1) 55.45 minutes
(2) 54.55 minutes
(3) 55.44 minutes
(4) 45.55 minutes
(SSC Multi-Tasking (Non-Technical) Staff Exam. 22.02.2011)

**19.** A train covers a distance of 10 km in 12 minutes. If its speed is decreased by 5 km/hr, the time taken by it to cover the same distance will be :
(1) 10 minutes
(2) 13 minutes 20 sec
(3) 13 minutes
(4) 11 minutes 20 sec
(SSC CHSL DEO & LDC Exam. 21.10.2012, IInd Sitting)

**20.** A man walks '$a$' km in '$b$' hours. The time taken to walk 200 metres is
(1) $\frac{200b}{a}$ hours (2) $\frac{b}{5a}$ hours
(3) $\frac{b}{a}$ hours (4) $\frac{ab}{200}$ hours
(SSC CHSL DEO & LDC Exam. 04.11.2012, Ist Sitting)

**21.** The speed $3\frac{1}{3}$ m/sec when expressed in km/hour becomes
(1) 8 (2) 9
(3) 10 (4) 12
(SSC Graduate Level Tier-I Exam. 11.11.2012, Ist Sitting)

**22.** A bullock cart has to cover a distance of 120 km. in 15 hours. If it covers half of the journey in $\frac{3}{5}$ th time, the speed to cover the remaining distance in the time left has to be
(1) 6.4 km/hr (2) 6.67 km/hr
(3) 10 km/hr (4) 15 km/hr
(SSC Multi-Tasking Staff Exam. 10.03.2013, Ist Sitting : Patna)

**23.** A train covers a certain distance in 210 minutes at a speed of 60 kmph. The time taken by the train, to cover the same distance at a speed of 80 kmph is :
(1) $3\frac{5}{8}$ hours (2) $2\frac{5}{8}$ hours
(3) $4\frac{5}{8}$ hours (4) 3 hours
(SSC Multi-Tasking Staff Exam. 10.03.2013

**24.** A man rides at the rate of 18 km/hr, but stops for 6 mins. to change horses at the end of every 7th km. The time that he will take to cover a distance of 90 km is
(1) 6 hrs.
(2) 6 hrs. 12 min.
(3) 6 hrs. 18 min.
(4) 6 hrs. 24 min.
(SSC Graduate Level Tier-I Exam. 21.04.2013)

**25.** A speed of 30.6 km/.hr is the same as
(1) 8.5 m/sec. (2) l0 m/sec.
(3) 12 m/sec. (4) 15.5 m/sec.
(SSC Constable (GD) Exam. 12.05.2013)

**26.** A man covers $\frac{2}{15}$ of the total journey by train, $\frac{9}{20}$ by bus and the remaining 10 km on foot. His total journey (in km) is
(1) 15.6 (2) 24
(3) 16.4 (4) 12.8
(SSC Graduate Level Tier-I Exam. 19.05.2013)

**27.** You arrive at your school 5 minutes late if you walk with a speed of 4 km/h, but you arrive 10 minutes before the scheduled time if you walk with a speed of 5 km/h. The distance of your school from your house (in km) is
(1) 4 (2) 5
(3) 10 (4) 2
(SSC CGL Tier-I Re-Exam. (2013) 27.04.2014)

**28.** Sarita and Julie start walking from the same place in the opposite directions. If Julie walks at a speed of $2\frac{1}{2}$ km/hr and Sarita at a speed of 2 km/hr, in how much time will they be 18 km apart ?
(1) 4.0 hrs (2) 4.5 hrs
(3) 5.0 hrs (4) 4.8 hrs
(SSC CGL Tier-I Re-Exam. (2013) 20.07.2014 (Ist Sitting)

**29.** A man travelled a distance of 80 km in 7 hrs partly on foot at the rate of 8 km per hour and partly on bicycle at 16km per hour. The distance travelled on the foot is
(1) 32 km (2) 48 km
(3) 36 km (4) 44 km
(SSC CGL Tier-II Exam. 21.09.2014)

**30.** A car driver leaves Bangalore at 8.30 A.M. and expects to reach a place 300 km from Bangalore at 12.30 P.M. At 10.30 he finds that he has covered only 40% of the distance. By how much he has to increase the speed of the car in order to keep up his schedule?
(1) 45 km/hr (2) 40 km/hr
(3) 35 km/hr (4) 30 km/hr
(SSC CGL Tier-II Exam. 21.09.2014)

**31.** A man is walking at a speed of 10 kmph. After every km, he takes a rest for 5 minutes. How much time will he take to cover a distance of 5 km?
(1) 60 minutes (2) 50 minutes
(3) 40 minutes (4) 70 minutes
(SSC CGL Tier-II Exam. 21.09.2014)

**32.** A train covers a distance of 10 km in 12 minutes. If its speed is decreased by 5 km/hr, the time taken by it to cover the same distance is equal to
(1) 40 minutes (2) $\frac{40}{3}$ minutes
(3) 20 minutes (4) 15 minutes
(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

**33.** Motor-cyclist P started his journey at a speed of 30 km/hr. After 30 minutes, motor-cyclist Q started from the same place but with a speed of 40 km/hr. How much time (in hours) will Q take to overtake P ?
(1) 1 (2) $\frac{3}{2}$
(3) $\frac{3}{8}$ (4) 2
(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

**34.** A is twice as fast as B and B is thrice as fast as C is. The journey covered by C in $1\frac{1}{2}$ hours will be covered by A in
(1) 15 minutes (2) 20 minutes
(3) 30 minutes (4) 1 hour
(SSC CHSL DEO & LDC Exam. 9.11.2014)

**35.** A truck travels at 90 km/hr for the first $1\frac{1}{2}$ hours. After that it travels at 70 km/hr. Find the time taken by the truck to travel 310 kilometres.

(1) 2.5 hrs (2) 3 hrs

(3) 3.5 hrs (4) 4 hrs

(SSC CHSL DEO Exam. 02.11.2014 (Ist Sitting)

**36.** A car travels at a speed of 60 km/hr and covers a particular distance in one hour. How long will it take for another car to cover the same distance at 40 km/hr ?

(1) $\frac{5}{2}$ hours (2) 2 hours

(3) $\frac{3}{2}$ hours (4) 1 hour

(SSC CHSL DEO Exam. 16.11.2014 (Ist Sitting)

**37.** A student goes to school at the rate of $\frac{5}{2}$ km/hr and reaches 6 minutes late. If he travels at the speed of 3 km/hr, he reaches 10 minutes earlier. The distance of the school is

(1) 45 km (2) 20 km

(3) 10 km (4) 4 km

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014 TF No. 999 KP0)

**38.** Sriya with her family travelled from Bolpur to Suri by car at a speed of 40 km/hr and returned to Bolpur at a speed of 50 km/hr. The average speed for the whole journey is

(1) $44\frac{4}{9}$ km/hr

(2) 45 km/hr

(3) $45\frac{1}{2}$ km/hr

(4) 44.78 km/hr

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014 , Ist Sitting TF No. 333 LO 2)

**39.** A journey takes 4 hours 30 minutes at a speed of 60 km/hr. If the speed is 15 m/s, then the journey will take

(1) 5 hours

(2) 5 hours 30 minutes

(3) 6 hours

(4) 6 hours 15 minutes

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014 , Ist Sitting TF No. 333 LO 2)

**40.** The distance between 2 places R and S is 42 km. Anita starts from R with a uniform speed of 4 km/h towards S and at the same time Romita starts from S towards R also with some uniform speed. They meet each other after 6 hours. The speed of Romita is

(1) 18 km/hour (2) 6 km/hour

(3) 20 km/hour (4) 8 km/hour

(SSC CGL Tier-II Exam. 12.04.2015 TF No. 567 TL 9)

**41.** A farmer travelled a distance of 61 km in 9 hours. He travelled partly on foot at the rate 4 kmph and partly on bicycle at the rate 9 kmph. The distance travelled on foot is

(1) 16 km (2) 14 km

(3) 17 km (4) 15 km

(SSC CGL Tier-II Exam. 12.04.2015 TF No. 567 TL 9) & SSC CGL Tier-I Exam. 09.08.2015 Ist Sitting TF No. 1443088)

**42.** A bus moving at 40 km per hour covers a distance in 6 hours 15 minutes. If it travels the same distance at 50 km per hour how long will it take to cover the distance ?

(1) 2 hrs. (2) 6 hrs.

(3) 4 hrs. (4) 5 hrs.

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam, 21.06.2015 (Ist Sitting) TF No. 8037731)

**43.** A student starting from his house walks at a speed of $2\frac{1}{2}$ km/hour and reaches his school 6 minutes late. Next day starting at the same time he increases his speed by 1 km/hour and reaches 6 minutes early. The distance between the school and his house is

(1) 4 km (2) $3\frac{1}{2}$ km

(3) $1\frac{3}{4}$ km (4) 6 km

(SSC Constable (GD) Exam, 04.10.2015, Ist Sitting)

**44.** A man starts from a place P and reaches the place Q in 7 hours. He travels $\frac{1}{4}$ th of the distance at 10 km/hour and the remaining distance at 12 km/hour. The distance between P and Q is

(1) 72 km (2) 90 km

(3) 80 km (4) 70 km

(SSC CGL Tier-II Exam, 25.10.2015, TF No. 1099685)

**45.** A student goes to school at the rate of $2\frac{1}{2}$ km/hr and reaches 6 minutes late. If he travels at the speed of 3 km/hr. he is 10 minutes early. What is the distance to the school?

(1) 4 km (2) $3\frac{1}{2}$ km

(3) 1 km (4) $3\frac{1}{4}$ km

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 01.11.2015, IInd Sitting)

**46.** A man travels for 5 hours 15 minutes. If he covers the first half of the journey at 60 km/h and rest at 45 km/h. Find the total distance travelled by him.

(1) $1028\frac{6}{7}$ km. (2) 189 km.

(3) 378 km. (4) 270 km.

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (IInd Sitting) TF No. 7203752)

**47.** A car can finish a certain journey in 10 hours at the speed of 42 kmph. In order to cover the same distance in 7 hours, the speed of the car (km/h) must be increased by :

(1) 12 (2) 15

(3) 18 (4) 24

(SSC CGL Tier-II Online Exam.01.12.2016)

**48.** A man cycles at the speed of 8km/hr and reaches office at 11 am and when he cycles at the speed of 12 km/hr he reaches office at 9 am. At what speed should he cycle so that he reaches his office at 10 am?

(1) 9.6 kmph.

(2) 10 kmph.

(3) 11.2 kmph.

(4) Cannot be determined

(SSC CPO SI, ASI Online Exam.05.06.2016) (IInd Sitting)

**49.** A bus travels at the speed of 36 km/hr, then the distance covered by it in one second is
(1) 10 metre (2) 15 metre
(3) 12.5 metre (4) 13.5 metre
(SSC CGL Tier-I (CBE) Exam. 09.09.2016) (Ist Sitting)

**50.** 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 is :
(1) 900 km. (2) 945 km.
(3) 990 km. (4) 1350 km.
(SSC CGL Tier-I (CBE) Exam. 31.08.2016) (IInd Sitting)

**51.** A train is running at a speed of 116 km/hr. The distance covered by the train in metres in 18 seconds is :
(1) 900 metre (2) 1160 metre
(3) 508 metre (4) 580 metre
(SSC CGL Tier-I (CBE) Exam. 04.09.2016 (IInd Sitting)

**52.** A man travels $\frac{3}{4}$ th of the distance of his journey by bus, $\frac{1}{6}$ th by rickshaw and 2 km on foot. The total distance travelled by the man is :
(1) 12 km (2) 18 km
(3) 20 km (4) 24 km
(SSC CGL Tier-I (CBE) Exam. 08.09.2016 (IInd Sitting)

**53.** To cover a certain distance with a speed of 60 km/hr, a train takes 15 hours. If it covers the same distance in 12 hours, what will be its speed?
(1) 65 km/h (2) 70 km/h
(3) 75 km/h (4) 80 km/h
(SSC CGL Tier-I (CBE) Exam. 09.09.2016 (IIIrd Sitting)

**54.** Sound travels at 330 metre per second. The distance (in kilometre) of a thunder cloud when its sound follows the flash after 10 seconds is :
(1) 0.33 km. (2) 3.3 km.
(3) 33 km. (4) 33.3 km.
(SSC CGL Tier-I (CBE) Exam. 10.09.2016 (IInd Sitting)

**56.** A man travels some distance at a speed of 12 km/hr and returns at a speed of 9 km/hr. If the total time taken by him is 2 hrs 20 minutes the distance is
(1) 35 km. (2) 21 km.
(3) 9 km. (4) 12 km.
(SSC CGL Tier-II (CBE) Exam. 12.01.2017)

## TYPE–II

**1.** The length of a train and that of a platform are equal. If with a speed of 90 km/hr the train crosses the platform in one minute, then the length of the train (in metres) is :
(1) 500 (2) 600
(3) 750 (4) 900
(SSC CGL Prelim Exam. 27.02.2000 (Second Sitting)

**2.** A train passes two bridges of lengths 800 m and 400 m in 100 seconds and 60 seconds respectively. The length of the train is :
(1) 80 m (2) 90 m
(3) 200 m (4) 150 m
(SSC CGL Prelim Exam. 24.02.2002 (Ist Sitting) & (SSC CGL Prelim Exam. 13.11.2005 (Ist Sitting)

**3.** A train 300 metres long is running at a speed of 25 metres per second. It will cross a bridge of 200 metres in
(1) 5 seconds (2) 10 seconds
(3) 20 seconds (4) 25 seconds
(SSC CPO S.I. Exam. 12.01.2003

**4.** A train 800 metres long is running at the speed of 78 km/hr. If it crosses a tunnel in 1 minute, then the length of the tunnel (in metres) is :
(1) 77200 (2) 500
(3) 1300 (4) 13
(SSC CGL Prelim Exam. 11.05.2003 (First Sitting)

**5.** A train is moving at a speed of 132 km/hour. If the length of the train is 110 metres, how long will it take to cross a railway platform 165 metres long?
(1) 5 seconds (2) 7.5 seconds
(3) 10 seconds (4) 15 seconds
(SSC Section Officer (Commercial Audit) Exam. 16.11.2003)

**6.** A train takes 18 seconds to pass through a platform 162 m long and 15 seconds to pass through another platform 120 m long. The length of the train (in m) is :
(1) 70 (2) 80
(3) 90 (4) 105
(SSC CPO S.I. Exam. 26.05.2005)

**7.** A train, 150 m long, takes 30 seconds to cross a bridge 500 m long. How much time will the train take to cross a platform 370 m long ?
(1) 36 secs (2) 30 secs
(3) 24 secs (4) 18 secs
(SSC CGL Prelim Exam. 24.02.2002 (Middle Zone) & (SSC CGL Prelim Exam. 13.11.2005 (Ist Sitting)

**8.** A 120 metre long train is running at a speed of 90 km per hour. It will cross a railway platform 230 m long in :
(1) $4\frac{4}{5}$ seconds (2) $9\frac{1}{5}$ seconds
(3) 7 seconds (4) 14 seconds
(SSC CGL Prelim Exam. 13.11.2005 (First Sitting)

**9.** A train travelling at a speed of 30 m/sec crosses a platform, 600 metres long, in 30 seconds. The length (in metres) of train is
(1) 120 (2) 150
(3) 200 (4) 300
(SSC CGL Prelim Exam. 04.02.2007 (First Sitting)

**10.** A train with a uniform speed passes a platform, 122 metres long, in 17 seconds and a bridge, 210 metres long, in 25 seconds. The speed of the train is
(1) 46.5 km/hour
(2) 37.5 km/hour
(3) 37.6 km/hour
(4) 39.6 km/hour
(SSC CPO S.I. Exam. 09.11.2008)

**11.** A train, with a uniform speed, crosses a platform, 162 metres long, in 18 seconds and another platform, 120 metres long, in 15 seconds. The speed of the train is
(1) 14 km/hr (2) 42 km/hr
(3) 50.4 km/hr (4) 67.2 km/hr
(SSC Data Entry Operator Exam. 02.08.2009)

**12.** A train travelling with uniform speed crosses two bridges of lengths 300 m and 240 m in 21 seconds and 18 seconds respectively. The speed of the train is :
(1) 72 km/hr (2) 68 km/hr
(3) 65 km/hr (4) 60 km/hr
(SSC CHSL DEO & LDC Exam. 27.11.2010)

**13.** A train, 110m long , is running at a speed of 60km/hr. How many seconds does it take to cross another train, 170 m long, standing on parallel track ?
(1) 15.6 sec (2) 16.8 sec
(3) 17.2 sec (4) 18 sec
(SSC CHSL DEO & LDC Exam. 28.11.2010 (Ist Sitting)

**14.** A train of length 500 feet crosses a platform of length 700 feet in 10 seconds. The speed of the train is
(1) 70 ft/second
(2) 85 ft/second
(3) 100 ft/second
(4) 120 ft/second
(SSC CISF Constable (GD) Exam. 05.06.2011)

**15.** A train 200 m long running at 36 kmph takes 55 seconds to cross a bridge. The length of the bridge is
(1) 375 m. (2) 300 m.
(3) 350 m. (4) 325 m.
(SSC Constable (GD) Exam. 12.05.2013)

**16.** A train 270 metres long is running at a speed of 36 km per hour, then it will cross a bridge of length 180 metres in :
(1) 40 sec (2) 45 sec
(3) 50 sec (4) 35 sec
(SSC CAPFs SI & CISF ASI Exam. 23.06.2013)

**17.** A train 50 metres long passes a platform of length 100 metres in 10 seconds. The speed of the train in metre/second is
(1) 50 (2) 10
(3) 15 (4) 20
(SSC CGL Tier-I Re-Exam. (2013) 27.04.2014)

**18.** A train 50 metre long passes a platform 100 metre long in 10 seconds. The speed of the train in km/hr is
(1) 10 (2) 54
(3) 15 (4) 100
(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014 TF No. 999 KP0)

**19.** How many seconds will a train 120 metre long running at the rate of 36 km/hr take to cross a bridge of 360 metres in length ?
(1) 48 sec (2) 40 sec
(3) 46 sec (4) 36 sec
(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam, 21.06.2015 (Ist Sitting) TF No. 8037731)

**20.** If a man running at 15 kmph crosses a bridge in 5 minutes, the length of the bridge is
(1) 1000 metres
(2) 500 metres
(3) 750 metres
(4) 1250 metres
(SSC CGL Tier-I Re-Exam, 30.08.2015)

**21.** A 200 metre long train is running at a speed of 72 km/hr. How long will it take to cross 800metre long bridge ?
(1) 50 seconds (2) 40 seconds
(3) 60 seconds (4) 30 seconds
(SSC Constable (GD) Exam, 04.10.2015, IInd Sitting)

**22.** A train passes two bridges of lengths 500 m and 250 m in 100 seconds and 60 seconds respectively. The length of the train is :
(1) 152 m (2) 125 m
(3) 250 m (4) 120 m
(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (Ist Sitting) TF No. 6636838)

**23.** A train 150 metre long takes 20 seconds to cross a platform 450 metre long. The speed of the train in, km per hour, is :
(1) 108 (2) 100
(3) 106 (4) 104
(SSC CAPFs (CPO) SI & ASI, Delhi Police Exam. 20.03.2016) (IInd Sitting)

**24.** A moving train passes a platform 50 metre long in 14 seconds and a lamp post in 10 seconds. The speed of the train (in km/h) is :
(1) 24 (2) 36
(3) 40 (4) 45
(SSC CGL Tier-I (CBE) Exam. 29.08.2016) (IInd Sitting)

**25.** The lengths of a train and that of a platform are equal. If with a speed of 90 km/hr the train crosses the platform in one minute, then the length of the train (in metres) is
(1) 500 (2) 600
(3) 750 (4) 900
(SSC CGL Tier-I (CBE) Exam. 30.08.2016) (Ist Sitting)

**26.** A train, 500 metre long, running at a uniform speed, passes a station in 35 seconds. If the length of the platform is 221 metre, the speed of the train in km/hr is
(1) $72\frac{1}{35}$ (2) 74.16
(3) 24.76 (4) 78.54
(SSC CGL Tier-I (CBE) Exam. 04.09.2016) (Ist Sitting)

**27.** A train, 200 metre long, is running at a speed of 54 km/hr. The time in seconds that will be taken by train to cross a 175 metre long bridge is :
(1) 12.5 (2) 20
(3) 25 (4) 10
(SSC CGL Tier-I (CBE) Exam. 11.09.2016 (IIIrd Sitting)

## TYPE–III

**1.** A train 180 m long moving at the speed of 20 m/sec. over-takes a man moving at a speed of 10m/sec in the same direction. The train passes the man in :
(1) 6 sec (2) 9 sec
(3) 18 sec (4) 27 sec
(SSC CGL Prelim Exam. 04.07.1999 (First Sitting)

**2.** A train 100m long is running at the speed of 30 km/hr. The time (in second) in which it will pass a man standing near the railway line is :
(1) 10 (2) 11
(3) 12 (4) 15
(SSC CGL Prelim Exam. 04.07.1999 (Second Sitting)

**3.** How many seconds will a 500 metre long train take to cross a man walking with a speed of 3 km/hr. in the direction of the moving train if the speed of the train is 63 km/hr ?
(1) 25 sec (2) 30 sec
(3) 40 sec (4) 45 sec
(SSC CGL Prelim Exam. 27.02.2000 (First Sitting)

**4.** A train is 125 m long. If the train takes 30 seconds to cross a tree by the railway line, then the speed of the train is :
(1) 14 km/hr (2) 15 km/hr
(3) 16 km/hr (4) 12 km/hr
(SSC CGL Prelim Exam. 24.02.2002 (First Sitting)

**5.** A 120 m long train takes 10 seconds to cross a man standing on a platform. What is the speed of the train ?
(1) 12 m/sec. (2) 10 m/sec.
(3) 15 m/sec. (4) 20 m/sec.
(SSC CGL Prelim Exam. 24.02.2002 (IInd Sitting) & (SSC CPO S.I. Exam. 03.09.2006)

**6.** A 75 metre long train is moving at 20 kmph. It will cross a man standing on the platform in
(1) 12 seconds
(2) 14 seconds
(3) 13.5 seconds
(4) 15.5 seconds
(SSC CGL Prelim Exam. 24.02.2002 (Middle Zone)

**7.** In what time will a train 100 metres long cross an electric pole, if its speed be 144 km/hour ?
(1) 2.5 seconds
(2) 5 seconds
(3) 12.5 seconds
(4) $3\frac{5}{4}$ seconds
(SSC CGL Prelim Exam. 11.05.2003 (Second Sitting)

**8.** A man observed that a train 120 m long crossed him in 9 seconds. The speed (in km/hr) of the train was
(1) 42 (2) 45
(3) 48 (4) 55
(SSC CPO S.I. Exam. 07.09.2003)

**9.** If a train, with a speed of 60 km/hr, crosses a pole in 30 seconds, the length of the train (in metres) is :
(1) 1000 (2) 900
(3) 750 (4) 500
(SSC CGL Prelim Exam. 13.11.2005 (First Sitting)

**10.** A train passes two persons walking in the same direction at a speed of 3 km/hour and 5km/hour respectively in 10 seconds and 11 seconds respectively. The speed of the train is
(1) 28 km/hour (2) 27 km/hour
(3) 25 km/hour (4) 24 km/hour
(SSC CPO S.I. Exam. 03.09.2006)

**11.** A passenger train 150m long is travelling with a speed of 36 km/hr. If a man is cycling in the direction of train at 9 km/hr., the time taken by the train to pass the man is
(1) 10 sec (2) 15 sec
(3) 18 sec (4) 20 sec
(SSC CPO S.I. Exam. 06.09.2009)

**12.** Buses start from a bus terminal with a speed of 20 km/hr at intervals of 10 minutes. What is the speed of a man coming from the opposite direction towards the bus terminal if he meets the buses at intervals of 8 minutes?
(1) 3 km/hr (2) 4 km/hr
(3) 5 km/hr (4) 7 km/hr
(SSC CGL Tier-I Exam. 16.05.2010 (First Sitting)

**13.** A train, 300m long, passed a man, walking along the line in the same direction at the rate of 3 km/hr in 33 seconds. The speed of the train is
(1) 30 km/h (2) 32 km/h
(3) $32\frac{8}{11}$ km/h (4) $35\frac{8}{11}$ km/h
(SSC CGL Tier-I Exam. 16.05.2010 (First Sitting)

**14.** A train, 240 m long crosses a man walking along the line in opposite direction at the rate of 3 kmph in 10 seconds. The speed of the train is
(1) 63 kmph (2) 75 kmph
(3) 83.4 kmph (4) 86.4 kmph
(SSC CGL Tier-I Exam. 16.05.2010 (Second Sitting)

**15.** A train is running at 36 km/hr. If it crosses a pole in 25 seconds, its length is
(1) 248 m (2) 250 m
(3) 255 m (4) 260 m
(SSC (South Zone) Investigator Exam 12.09.2010)

**16.** A train is running at a speed of 90 km/hr. If it crosses a signal in 10 sec., the length of the train (in metres) is
(1) 150 (2) 324
(3) 900 (4) 250
(SSC CHSL DEO & LDC Exam. 04.11.2012 (IInd Sitting)

**17.** A train 100 metres long meets a man going in opposite direction at 5 km/hr and passes him in $7\frac{1}{5}$ seconds. What is the speed of the train (in km/hr) ?
(1) 45 km/hr (2) 60 km/hr
(3) 55 km/hr (4) 50 km/hr
(SSC CHSL DEO & LDC Exam. 04.11.2012, Ist Sitting)

**18.** A train, 120 m long, takes 6 seconds to pass a telegraph post; the speed of train is
(1) 72 km/hr (2) 62 km/hr
(3) 55 km/hr (4) 85 km/hr
(SSC CGL Prelim Exam. 04.02.2007 (IInd Sitting) & (SSC Constable (GD) Exam. 12.05.2013 (Ist Sitting)

**19.** A train 300 m long is running with a speed of 54 km/hr. In what time will it cross a telephone pole?
(1) 20 seconds (2) 15 seconds
(3) 17 seconds (4) 18 seconds
(SSC CGL Tier-II Exam. 21.09.2014)

**20.** A train 180 metres long is running at a speed of 90 km/h. How long will it take to pass a post ?
(1) 8.2 secs (2) 7.8 secs
(3) 8 secs (4) 7.2 secs
(SSC CGL Tier-I Exam, 16.08.2015 (Ist Sitting) TF No. 3196279)

**21.** If a man walks at the rate of 5 km/hour, he misses a train by 7 minutes. However if he walks at the rate of 6 km/hour, he reaches the station 5 minutes before the arrival of the train. The distance covered by him to reach the station is
(1) 6 km (2) 7 km
(3) 6.25 km (4) 4 km
(SSC CGL Tier-II Exam, 25.10.2015, TF No. 1099685)

**22.** A train passes an electrical pole in 20 seconds and passes a platform 250 m long in 45 seconds. Find the length of the train.
(1) 400m (2) 200m
(3) 300m (4) 250m
(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 01.11.2015, IInd Sitting)

**23.** A train is 250m long. If the train takes 50 seconds to cross a tree by the railway line, then the speed of the train in km/hr is :
(1) 10 (2) 9
(3) 5 (4) 18
(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 06.12.2015 (Ist Sitting) TF No. 1375232)

**24.** A train 150m long passes a km stone in 30 seconds and another train of the same length travelling in opposite direction in 10 seconds. The speed ot the second train is :
(1) 90 km/hr (2) 125 km/hr
(3) 25 km/hr (4) 75 km/hr
(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 06.12.2015 (IInd Sitting) TF No. 3441135)

**25.** The time taken by a train 160 m long, running at 72 km/hr, in crossing an electric pole is
(1) 8 seconds (2) 9 seconds
(3) 6 seconds (4) 4 seconds
(SSC CGL Tier-I (CBE) Exam. 28.08.2016) (IInd Sitting)

**26.** In what time will a 100 metre long train running with a speed of 50 km/hr cross a pillar ?
(1) 7.0 seconds (2) 72 seconds
(3) 7.2 seconds (4) 70 seconds
(SSC CGL Tier-I (CBE) Exam. 31.08.2016) (Ist Sitting)

**27.** A train 150m long passes a telegraphic post in 12 seconds. Find the speed of the train.(in km/hr)
(1) 50 (2) 12.5
(3) 25 (4) 45
(SSC CGL Tier-I (CBE) Exam. 02.09.2016) (IInd Sitting)

**28.** In what time will a train, 60 metre long, running at the rate of 36 km/hr pass a telegraph post ?
(1) 9 seconds (2) 8 seconds
(3) 7 seconds (4) 6 seconds
(SSC CGL Tier-I (CBE) Exam. 06.09.2016) (Ist Sitting)

**29.** A train 240 metres in length crosses a telegraph post in 16 seconds. The speed of the train is
(1) 50 km/hr (2) 52 km/hr
(3) 54 km/hr (4) 56 km/hr
(SSC CGL Tier-I (CBE) Exam. 01.09.2016 (IIIrd Sitting)

**30.** How long does a train, 75 metre long, moving at 60 km/hr take to pass a certain telegraph post?
(1) 3.5 seconds (2) 4.5 seconds
(3) 5 seconds (4) 5.4 seconds
(SSC CGL Tier-I (CBE) Exam. 02.09.2016 (IInd Sitting)

**31.** A train 100 metre long is running at a speed of 120 km/hr. The time taken to pass a person standing near the line is
(1) 1 second (2) 3 seconds
(3) 5 seconds (4) 7 seconds
(SSC CGL Tier-I (CBE) Exam. 07.09.2016 (IInd Sitting)

## TYPE–IV

**1.** The distance between two cities A and B is 330 km. A train starts from A at 8 a.m. and travels towards B at 60 km/hr. Another train starts from B at 9 a.m. and travels towards A at 75 km/hr. At what time do they meet?
(1) 10 a.m. (2) 10 : 30 a.m.
(3) 11 a.m. (4) 11 : 30 a.m.
(SSC CGL Prelim Exam. 04.07.1999 (First Sitting)

**2.** Two men are standing on opposite ends of a bridge 1200 metres long. If they walk towards each other at the rate of 5m/minute and 10m/minute respectively, in how much time will they meet each other ?
(1) 60 minutes (2) 80 minutes
(3) 85 minutes (4) 90 minutes
(SSC CGL Prelim Exam. 04.07.1999 (Second Sitting)

**3.** Two trains, one 160 m and the other 140 m long are running in opposite directions on parallel rails, the first at 77 km an hour and the other at 67 km an hour. How long will they take to cross each other?
(1) 7 seconds (2) $7\frac{1}{2}$ seconds
(3) 6 seconds (4) 10 seconds
(SSC CGL Prelim Exam. 11.05.2003 (First Sitting)

**4.** Two trains are running in opposite direction with the same speed. If the length of each train is 120 metres and they cross each other in 12 seconds, the speed of each train (in km/hour) is
(1) 72 (2) 10
(3) 36 (4) 18
(SSC CGL Prelim Exam. 11.05.2003 (Second Sitting)

**5.** Two trains 140 m and 160 m long run at the speed of 60 km/hour and 40 km/hour respectively in opposite directions on parallel tracks. The time (in seconds) which they take to cross each other, is :
(1) 10 sec. (2) 10.8 sec.
(3) 9 sec. (4) 9.6 sec.
(SSC CGL Prelim Exam. 08.02.2004 (Second Sitting)

**6.** Two trains start from stations A and B and travel towards each other at speed of 50 km/hour and 60 km/hour respectively. At the time of their meeting, the second train has travelled 120 km more than the first. The distance between A and B is :
(1) 990 km (2) 1200 km
(3) 1320 km (4) 1440 km
(SSC CPO S.I. Exam. 26.05.2005)

**7.** Two trains are moving on two parallel tracks but in opposite directions. A person sitting in the train moving at the speed of 80 km/hr passes the second train in 18 seconds. If the length of the second train is 1000 m, its speed is
(1) 100 km/hr (2) 120 km/hr
(3) 140 km/hr (4) 150 km/hr
(SSC Section Officer (Commercial Audit) Exam. 26.11.2006 (Second Sitting)

**8.** Two trains 105 metres and 90 metres long, runs at the speed of 45 km/hr and 72 km/hr respectively, in opposite directions on parallel tracks. The time which they take to cross each other, is
(1) 8 seconds (2) 6 seconds
(3) 7 seconds (4) 5 seconds
(SSC CGL Prelim Exam. 04.02.2007 (First Sitting)

**9.** Two trains of equal length, running in opposite directions, pass a pole in 18 and 12 seconds. The trains will cross each other in
(1) 14.4 seconds
(2) 15.5 seconds
(3) 18.8 seconds
(4) 20.2 seconds
(SSC CGL Prelim Exam. 27.07.2008 (First Sitting)

**10.** A train, 150m long, passes a pole in 15 seconds and another train of the same length travelling in the opposite direction in 12 seconds. The speed of the second train is
(1) 45 km./hr (2) 48 km./hr
(3) 52 km./hr (4) 54 km./hr
(SSC CGL Prelim Exam. 27.07.2008 (IInd Sitting) & (SSC GL Tier-I Exam. 19.05.2013)

**11.** A train travelling at 48 km/hr crosses another train, having half its length and travelling in opposite direction at 42 km/hr, in 12 seconds. It also passes a railway platform in 45 seconds. The length of the railway platform is

(1) 200 m (2) 300 m

(3) 350 m (4) 400 m

(SSC CGL Prelim Exam. 27.07.2008 (Second Sitting)

**12.** Two towns A and B are 500 km. apart. A train starts at 8 AM from A towards B at a speed of 70 km/hr. At 10 AM, another train starts from B towards A at a speed of 110 km/hr. When will the two trains meet ?

(1) 1 PM (2) 12 Noon

(3) 12.30 PM (4) 1.30 PM

(SSC CPO S.I. Exam. 06.09.2009)

**13.** Two trains of length 70 m and 80 m are running at speed of 68 km/hr and 40 km/hr respectively on parallel tracks in opposite directions. In how many seconds will they pass each other ?

(1) 10 sec (2) 8 sec

(3) 5 sec (4) 3 sec

(SSC CISF ASI Exam. 29.08.2010 (Paper-1)

**14.** Two trains of equal length take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 120 metres, in what time (in seconds) will they cross each other travelling in opposite direction ?

(1) 16 (2) 15

(3) 12 (4) 10

(SSC CGL Prelim Exam. 08.02.2004 (First Sitting)

**15.** Two trains of length 137 metre and 163 metre are running with speed of 42 km/hr and 48 km/hr respectively towards each other on papallel tracks. In how many seconds will they cross each other?

(1) 30 sec (2) 24 sec

(3) 12 sec (4) 10 sec

(SSC CHSL DEO & LDC Exam. 28.11.2010 (IInd Sitting)

**16.** Two trains 150 m and 120 m long respectively moving from opposite directions cross each other in 10 secs. If the speed of the second train is 43.2 km/hr, then the speed of the first train is

(1) 54 km/hr (2) 50 km/hr

(3) 52 km/hr (4) 51 km/hr

(SSC Multi-Tasking Staff Exam. 10.03.2013, Ist Sitting : Patna)

**17.** Two trains start from station A and B and travel towards each other at speed of 16 miles/ hour and 21 miles/ hour respectively. At the time of their meeting, the second train has travelled 60 miles more than the first. The distance between A and B (in miles) is :

(1) 444 (2) 496

(3) 333 (4) 540

(SSC Multi-Tasking Staff Exam. 10.03.2013)

**18.** Two trains 108 m and 112 m in length are running towards each other on the parallel lines at a speed of 45 km/hr and 54 km/hr respectively. To cross each other after they meet, it will take

(1) 12 sec (2) 9 sec

(3) 8 sec (4) 10 sec

(SSC Multi-Tasking Staff Exam. 17.03.2013, IInd Sitting)

**19.** A man standing on a platform finds that a train takes 3 seconds to pass him and another train of the same length moving in the opposite direction, takes 4 seconds. The time taken by the trains to pass each other will be

(1) $2\frac{3}{7}$ seconds (2) $3\frac{3}{7}$ seconds

(3) $4\frac{3}{7}$ seconds (4) $5\frac{3}{7}$ seconds

(SSC CPO S.I. Exam. 03.09.2006)

**20.** Two trains, each of length 125 metre, are running in parallel tracks in opposite directions. One train is running at a speed 65 km/hour and they cross each other in 6 seconds. The speed of the other train is

(1) 75 km/hour (2) 85 km/hour

(3) 95 km/hour (4) 105 km/hour

(SSC CHSL DEO & LDC Exam. 27.10.2013 IInd Sitting)

**21.** A train running at the speed of 84 km/hr passes a man walking in opposite direction at the speed of 6 km/hr in 4 seconds. What is the length of train (in metre) ?

(1) 150 (2) 120

(3) 100 (4) 90

(SSC CGL Tier-I Re-Exam. (2013) 27.04.2014)

**22.** Two trains X and Y start from Jodhpur to Jaipur and from Jaipur to Jodhpur respectively. After passing each other they take 4 hours 48 minutes and 3 hours 20 minutes to reach Jaipur and Jodhpur respectively. If X is moving at 45 km/hr, the speed of Y is

(1) 60 km/hr (2) 58 km/hr

(3) 54 km/hr (4) 64.8 km/hr

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, IInd Sitting TF No. 545 QP 6)

**23.** P and Q starting simultaneously from two different places proceed towards each other at a speed of 20 km/hour and 30 km/hour respectively. By the time they meet each other. Q has covered 36 km more than that of P. The distance (in km.) between the two places is

(1) 144 (2) 162

(3) 180 (4) 108

(SSC CGL Tier-II Exam, 2014 12.04.2015 (Kolkata Region) TF No. 789 TH 7)

**24.** Two places P and Q are 162 km apart. A train leaves P for Q and simultaneously another train leaves Q for P. They meet at the end of 6 hours. If the former train travels 8 km/hour faster than the other, then speed of train from Q is

(1) $12\frac{5}{6}$ km/hour

(2) $10\frac{5}{6}$ km/hour

(3) $9\frac{1}{2}$ km/hour

(4) $8\frac{1}{2}$ km/hour

(SSC CGL Tier-II Exam, 25.10.2015, TF No. 1099685)

**25.** Two trains start at the same time from A and B and proceed toward each other at the speed of 75 km/hr and 50 km/hr respectively. When both meet at a point in between, one train was found to have travelled 175 km more than the other. Find the distance between A and B.
(1) 875 km. (2) 785 km.
(3) 758 km. (4) 857 km.
(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (IInd Sitting) TF No. 7203752)

**26.** Two trains of lengths 150m and 180m respectively are running in opposite directions on parallel tracks. If their speeds be 50 km/hr and 58 km/hr respectively, in what time will they cross each other?
(1) 22 seconds (2) 15 seconds
(3) 30 seconds (4) 11 seconds
(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 20.12.2015 (Ist Sitting) TF No. 9692918)

**27.** Two trains start at the same time from Aligarh and Delhi and proceed towards each other at the rate of 14 km and 21 km per hour respectively. When they meet, it is found that one train has travelled 70 km more than the other. The distance between two stations is
(1) 350 km (2) 210 km
(3) 300 km (4) 140 km
(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 20.12.2015 (Ist Sitting) TF No. 9692918)

## TYPE–V

**1.** A train running at $\frac{7}{11}$ of its own speed reached a place in 22 hours. How much time could be saved if the train would run at its own speed?
(1) 14 hours (2) 7 hours
(3) 8 hours (4) 16 hours
(SSC CGL Prelim Exam. 24.02.2002 (Ist Sitting) & (SSC CGL Prelim Exam. 13.11.2005 (Ist Sitting)

**2.** A man with $\frac{3}{5}$ of his usual speed reaches the destination $2\frac{1}{2}$ hours late. Find his usual time to reach the destination.
(1) 4 hours (2) 3 hours
(3) $3\frac{3}{4}$ hours (4) $4\frac{1}{2}$ hours
(SSC CGL Prelim Exam. 24.02.2002 (Middle Zone)

**3.** A car travelling with $\frac{5}{7}$ of its usual speed covers 42 km in 1 hour 40 min 48 sec. What is the usual speed of the car?
(1) $17\frac{6}{7}$ km/hr (2) 35 km/hr
(3) 25 km/hr (4) 30 km/hr
(SSC CGL Prelim Exam. 13.11.2005 (Second Sitting)

**4.** Walking at three-fourth of his usual speed, a man covers a certain distance in 2 hours more than the time he takes to cover the distance at his usual speed. The time taken by him to cover the distance with his usual speed is
(1) 4.5 hours (2) 5.5 hours
(3) 6 hours (4) 5 hours
(SSC CGL Prelim Exam. 13.11.2005 (Second Sitting)

**5.** By walking at $\frac{3}{4}$ of his usual speed, a man reaches his office 20 minutes later than his usual time. The usual time taken by him to reach his office is
(1) 75 minutes (2) 60 minutes
(3) 40 minutes (4) 30 minutes
(SSC CGL Tier-I Exam. 16.05.2010 (Ist Sitting) & (SSC GL Tier-I Exam. 19.05.2013)

**6.** Walking at $\frac{3}{4}$ of his usual speed, a man is $1\frac{1}{2}$ hours late. His usual time to cover the same distance, (in hours) is
(1) $4\frac{1}{2}$ (2) 4
(3) $5\frac{1}{2}$ (4) 5
(SSC CGL Tier-1 Exam 19.06.2011 (First Sitting)

**7.** Walking at $\frac{6}{7}$th of his usual speed a man is 25 minutes late. His usual time to cover this distance is
(1) 2 hours 30 minutes
(2) 2 hours 15 minutes
(3) 2 hours 25 minutes
(4) 2 hours 10 minutes
(SSC CGL Tier-1 Exam 19.06.2011 (Second Sitting)

**8.** Walking $\frac{6}{7}$th of his usual speed, a man is 12 minutes late. The usual time taken by him to cover that distance is
(1) 1 hour
(2) 1 hour 12 minutes
(3) 1 hour 15 minutes
(4) 1 hour 20 minutes
(SSC CGL Tier-1 Exam. 26.06.2011 (Second Sitting)

**9.** A car travels from P to Q at a constant speed. If its speed were increased by 10 km/h, it would have been taken one hour lesser to cover the distance. It would have taken further 45 minutes lesser if the speed was further increased by 10 km/h. The distance between the two cities is
(1) 540 km (2) 420 km
(3) 600 km (4) 620 km
(SSC CGL Tier-I Exam. 19.10.2014)

**10.** A car covers four successive 7 km distances at speeds of 10 km/hour, 20 km/hour, 30 km/hour and 60 km/hour respectively. Its average speed over this distance is
(1) 30 km/hour (2) 20 km/hour
(3) 60 km/hour (4) 40 km/hour
(SSC CGL Tier-II Exam, 25.10.2015, TF No. 1099685)

**11.** A car goes 20 metres in a second. Find its speed in km/hr.
(1) 18 (2) 72
(3) 36 (4) 20
(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (Ist Sitting) TF No. 6636838)

**12.** The speed of a car is 54 km/hr. What is its speed in m/sec?
(1) 15 m/sec (2) 19.44 m/sec
(3) 194.4 m/sec (4) 150 m/sec
(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 06.12.2015 (IInd Sitting) TF No. 3441135)

**13.** A car covers a certain distance in 25 hours. If it reduces the speed by $\frac{1}{5}$th, the car covers 200 km. less in that time. The speed of car is

(1) 60 km./hr. (2) 30 km./hr.
(3) 40 km./hr. (4) 50 km./hr.

(SSC CGL Tier-I (CBE) Exam. 03.09.2016) (IInd Sitting)

**14.** A car moving in the morning fog passes a man walking at 4 km/h. in the same direction. The man can see the car for 3 minutes and visibility is upto a distance of 130 m. The speed of the car is :

(1) $7\frac{3}{5}$ km. per hour

(2) $6\frac{3}{5}$ km. per hour

(3) 7 km. per hour
(4) 5 km. per hour

(SSC CGL Tier-I (CBE) Exam. 08.09.2016 (IIIrd Sitting)

## TYPE–VI

**1.** A boy rides his bicycle 10km at an average speed of 12 km/hr and again travels 12 km at an average speed of 10 km/hr. His average speed for the entire trip is approximately :

(1) 10.4 km/hr (2) 10.8 km/hr
(3) 11.0 km/hr (4) 12.2 km/hr

(SSC CGL Prelim Exam. 04.07.1999 (First Sitting)

**2.** A person travels 600 km by train at 80km/hr, 800 km by ship at 40 km/hr 500 km by aeroplane at 400 km/hr and 100 km by car at 50km/hr. What is the average speed for the entire distance ?

(1) $65\frac{5}{123}$km./hr.

(2) 60 km./hr.

(3) $60\frac{5}{123}$km./hr.

(4) 62 km./hr.

(SSC CGL Prelim Exam. 04.07.1999 (Second Sitting)

**3.** A train moves with a speed of 30 kmph for 12 minutes and for next 8 minutes at a speed of 45 kmph. Find the average speed of the train:

(1) 37.5 kmph (2) 36 kmph
(3) 48 kmph (4) 30 kmph

(SSC Section Officer (Commercial Audit) Exam. 25.09.2005)

**4.** A man covers half of his journey at 6km/hr and the remaining half at 3km/hr. His average speed is

(1) 9 km/hr (2) 4.5 km/hr
(3) 4 km/hr (4) 3 km/hr

(SSC CGL Prelim Exam. 04.02.2007 (First Sitting)

**5.** A man goes from A to B at a uniform speed of 12 kmph and returns with a uniform speed of 4 kmph His average speed (in kmph) for the whole journey is :

(1) 8 (2) 7.5
(3) 6 (4) 4.5

(SSC CPO S.I. Exam. 16.12.2007)

**6.** A train covers a distance of 3584 km in 2 days 8 hours. If it covers 1440 km on the first day and 1608 km on the second day, by how much does the average speed of the train for the remaining part of the journey differ from that for the entire journey ?

(1) 3 km/hour more
(2) 3 km/hour less
(3) 4 km/hour more
(4) 5 km/hour less

(SSC CGL Prelim Exam. 27.07.2008 (First Sitting)

**7.** A man travels a distance of 24 km at 6 kmph. Another distance of 24 km at 8 kmph and a third distance of 24 km at 12 kmph. His average speed for the whole journey (in kmph) is

(1) $8\frac{2}{3}$ (2) 8

(3) $2\frac{10}{13}$ (4) 9

(SSC CPO S.I. Exam. 09.11.2008)

**8.** A constant distance from Chennai to Bangalore is covered by Express train at 100 km/hr. If it returns to the same distance at 80 km/hr, then the average speed during the whole journey is

(1) 90.20 km/hr
(2) 88.78 km/hr
(3) 88.98 km/hr
(4) 88.89 km/hr

(SSC CPO S.I. Exam. 06.09.2009)

**9.** A person went from A to B at an average speed of $x$ km/hr and returned from B to A at an average speed of $y$ km/hr. What was his average speed during the total journey ?

(1) $\frac{x+y}{2xy}$ (2) $\frac{2xy}{x+y}$

(3) $\frac{2}{x+y}$ (4) $\frac{1}{x}+\frac{1}{y}$

(SSC SAS Exam. 26.06.2010 (Paper-1)

**10.** A man goes from Mysore to Bangalore at a uniform speed of 40 km/hr and comes back to Mysore at a uniform speed of 60 km/hr. His average speed for the whole journey is

(1) 48 km/hr (2) 50 km/hr
(3) 54 km/hr (4) 55 km/hr

(SSC CISF ASI Exam. 29.08.2010 (Paper-1) & (SSC CHSL DEO & LDC Exam. 21.10.2012 (IInd Sitting)

**11.** A man goes from a place A to B at a speed of 12 km/hr and returns from B to A at a speed of 18 km/hr. The average speed for the whole journey is

(1) $14\frac{2}{5}$ km/hr

(2) 15 km/hr

(3) $15\frac{1}{2}$ km/hr

(4) 16 km/hr

(SSC (South Zone) Investigator Exam. 12.09.2010)

**12.** One third of a certain journey is covered at the rate of 25 km/hour, one-fourth at the rate of 30 km/hour and the rest at 50 km/hour. The average speed for the whole journey is

(1) 35 km/hour

(2) $33\frac{1}{3}$ km/hour

(3) 30 km/hour

(4) $37\frac{1}{12}$ km/hour

FCI Assistant Grade-III Exam. 25.02.2012 (Paper-I) North Zone (Ist Sitting)

**13.** A man completes 30 km of a journey at the speed of 6 km/hr and the remaining 40 km of the journey in 5 hours. His average speed for the whole journey is

(1) 7 km/hr (2) $6\frac{4}{11}$ km/hr

(3) 8 km/hr (4) 7.5 km/hr

(SSC CGL Prelim Exam. 04.02.2007 (First Sitting)

**14.** A man covers the journey from a station A to station B at a uniform speed of 36 km/hr and returns to A with a uniform speed of 45 km/hr. His average speed for the whole journey is :

(1) 40 km/hr (2) 40.5 km/hr

(3) 41 km/hr (4) 42 km/hr

(SSC CHSL DEO & LDC Exam. 28.11.2010 (Ist Sitting)

**15.** The speed of a train going from Nagpur to Allahabad is 100 kmph while its speed is 150 kmph when coming back from Allahabad to Nagpur. Then the average speed during the whole journey is :

(1) 120 kmph (2) 125 kmph

(3) 140 kmph (4) 135 kmph

(SSC CHSL DEO & LDC Exam. 21.10.2012 (IInd Sitting)

**16.** P travels for 6 hours at the rate of 5 km/ hour and for 3 hours at the rate of 6 km/ hour. The average speed of the journey in km/ hour is

(1) $3\frac{1}{5}$ (2) $5\frac{1}{3}$

(3) $1\frac{2}{9}$ (4) $2\frac{2}{5}$

(SSC CHSL DEO & LDC Exam. 28.10.2012 (Ist Sitting)

**17.** With an average speed of 40 km/ hr, a train reaches its destination in time. If it goes with an average speed of 35 km/hr, it is late by 15 minutes. The total journey is

(1) 30 km (2) 40 km

(3) 70 km (4) 80 km

(SSC Multi-Tasking Staff Exam. 17.03.2013, Kolkata Region)

**18.** A bus covers four successive 3 km stretches at speed of 10 km/ hr, 20 km/hr, 30 km/hr and 60 km/hr respectively. Its average speed over this distance is

(1) 30 km/hr (2) 25 km/hr

(3) 20 km/hr (4) 10 km/hr

(SSC Multi-Tasking Staff Exam. 17.03.2013, Kolkata Region)

**19.** A train travelled at a speed of 35 km/hr for the first 10 minutes and at a speed of 20 km/hr for the next 5 minutes. The average speed of the train for the total 15 minutes is

(1) 30 km/hr (2) 23 km/hr

(3) 31 km/hr (4) 29 km/hr

(SSC Constable (GD) Exam. 12.05.2013 Ist Sitting)

**20.** On a journey across Kolkata, a taxi averages 50 km per hour for 50% of the distance, 40 km per hour for 40% of it and 20 km per hour for the remaining. The average speed (in km/hour) for the whole journey is :

(1) 42 (2) 40

(3) 35 (4) 45

(SSC CAPFs SI & CISF ASI Exam. 23.06.2013)

**21.** A train goes from Ballygunge to Sealdah at an average speed of 20 km/hour and comes back at an average speed of 30 km/hour. The average speed of the train for the whole journey is

(1) 27 km/hr (2) 26 km/hr

(3) 25 km/hr (4) 24 km/hr

(SSC Graduate Level Tier-II Exam. 29.09.2013

**22.** A and B are 20 km apart. A can walk at an average speed of 4 km/ hour and B at 6 km/hr. If they start walking towards each other at 7 a.m., when they will meet ?

(1) 8.00 a.m. (2) 8.30 a.m.

(3) 9.00 a.m. (4) 10.00 a.m.

(SSC CGL Tier-I Exam. 19.10.2014 (Ist Sitting)

**23.** A train runs from Howrah to Bandel at an average speed of 20 km/ hr and returns at an average speed of 30 km/hr. The average speed (in km/hr) of the train in the whole journey is

(1) 20 (2) 22.5

(3) 24 (4) 25

(SSC CHSL DEO Exam. 02.11.2014 (Ist Sitting)

**24.** A motorist travels to a place 150 km away at an average speed of 50 km/hr and returns at 30 km/ hr. His average speed for the whole journey in km/hr is

(1) 37.5 (2) 37

(3) 35 (4) 40

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, IInd Sitting TF No. 545 QP 6)

**25.** A man walks from his house at an average speed of 5 km per hour and reaches his office 6 minutes late. If he walks at an average speed of 6 km/h he reaches 2 minutes early. The distance of the office from his house is

(1) 6 km (2) 9 km

(3) 12 km (4) 4 km

(SSC CGL Tier-II Exam, 2014 12.04.2015 (Kolkata Region) TF No. 789 TH 7)

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

(1) 13 hrs (2) 12 hrs

(3) 15 hrs (4) 14 hrs

(SSC CGL Tier-I Exam, 16.08.2015 (Ist Sitting) TF No. 3196279)

**27.** A train travels 500 m in first minute. In the next 4 minutes, it travels in each minute 125 m more than that in the previous minute. The average speed per hour of the train during those 5 minutes will be

(1) 30 km/hr (2) 45 km/hr

(3) 50 km/hr (4) 55 km/hr

(SSC CGL Tier-I Re-Exam, 30.08.2015)

**28.** A man covers a total distance of 100 km on bicycle. For the first 2 hours, the speed was 20 km/ hr and for the rest of the journey, it came down to 10 km/hr. The average speed will be

(1) $12\frac{1}{2}$ km/hr

(2) 13 km/hr

(3) $15\frac{1}{8}$ km/hr

(4) 20 km/hr

(SSC CGL Tier-I (CBE) Exam.10.09.2016)

**29.** When Alisha goes by car at 50 kmph, she reaches her office 5 minutes late. But when she takes her motorbike, she reaches 3 minutes early. If her office is 25 kms away, what is the approximate average speed at which she rides her motorbike ?
(1) 68 kmph (2) 62 kmph
(3) 58 kmph (4) 52 kmph
(SSC CPO Exam. 06.06.2016) (Ist Sitting)

**30.** A man goes to a place on bicycle at speed of 16 km/hr and comes back at lower speed. If the average speed is 6.4 km/hr in total journey, then the return speed (in km/hr) is :
(1) 10 (2) 8
(3) 6 (4) 4
(SSC CHSL (10+2) Tier-I (CBE) Exam. 08.09.2016) (Ist Sitting)

**31.** A car completed a journey of 400 km in $12\frac{1}{2}$ hrs. The first $\frac{3}{4}$ th of the journey was done at 30 km/hr. Calculate the speed for the rest of the journey.
(1) 45 km/hr (2) 25 km/hr
(3) 40 km/hr (4) 30 km/hr
(SSC CAPFs (CPO) SI & ASI, Delhi Police Exam. 20.03.2016) (IInd Sitting)

**32.** Durga walks 5 km from her home to school in 60 minutes, then bicycles back to home along the same route at 15 km per hour. Her sister Smriti makes the same round trip, but does so at half of Durga's average speed. How much time does Smriti spend on her round trip ?
(1) 120 minutes (2) 40 minutes
(3) 160 minutes (4) 80 minutes
(SSC CPO SI & ASI, Online Exam. 06.06.2016) (IInd Sitting)

**33.** Gautam travels 160 kms at 32 kmph and returns at 40 kmph. Then his average speed is
(1) 72 kmph (2) 71.11 kmph
(3) 36 kmph (4) 35.55 kmph
(SSC CGL Tier-I (CBE) Exam. 01.09.2016) (Ist Sitting)

**34.** A car travels from A to B at the rate of 40 km/h and returns from B to A at the rate of 60 km/h. Its average speed during the whole journey is
(1) 48 km/h (2) 50 km/h
(3) 45 km/h (4) 60 km/h
(SSC CGL Tier-II (CBE) Exam. 30.11.2016)

**35.** A bus travels 150 km in 3 hours and then travels next 2 hours at 60 km/hr. Then the average speed of the bus will be
(1) 55 km/hr. (2) 54 km/hr.
(3) 50 km/hr. (4) 60 km/hr.
(SSC CGL Tier-II (CBE) Exam. 30.11.2016)

**36.** Gautam goes to office at a speed of 12 kmph and returns home at 10 kmph. His average speed is :
(1) 11 kmph (2) 22 kmph
(3) 10.9 kmph (4) 12.5 kmph
(SSC CGL Tier-I (CBE) Exam. 30.08.2016 (IIIrd Sitting)

**37.** A man travels 50 km at speed 25 km/h and next 40 km at 20 km/h and there after travels 90 km at 15 km/h. His average speed is :
(1) 18 kmph. (2) 25 kmph.
(3) 20 kmph. (4) 15 kmph.
(SSC CGL Tier-I (CBE) Exam. 31.08.2016 (IIIrd Sitting)

**38.** At an average of 80 km/hr Shatabdi Express reaches Ranchi from Kolkata in 7 hrs. The distance between Kolkata and Ranchi is
(1) 560 km. (2) 506 km.
(3) 560 m. (4) 650 m.
(SSC CGL Tier-I (CBE) Exam. 09.09.2016 (IInd Sitting)

**39.** To cover a distance of 216 km in 3.2 hours, what should be the average speed of the car in metre/second?
(1) 67.5 metre/second
(2) 33.75 metre/second
(3) 37.5 metre/second
(4) 18.75 metre/second
(SSC CHSL (10+2) Tier-I (CBE) Exam. 15.01.2017) (IInd Sitting)

## TYPE–VII

**1.** In covering a certain distance, the speed of A and B are in the ratio of 3 : 4. A takes 30 minutes more than B to reach the destination. The time taken by A to reach the destination is :
(1) 1 hour (2) $1\frac{1}{2}$ hours
(3) 2 hours (4) $2\frac{1}{2}$ hours
(SSC CGL Prelim Exam. 04.07.1999 (First Sitting)

**2.** The speed of A and B are in the ratio 3 : 4. A takes 20 minutes more than B to reach a destination. In what time does A reach the destination ?
(1) $1\frac{1}{3}$ hours (2) 2 hours
(3) $2\frac{2}{3}$ hours (4) $1\frac{2}{3}$ hours
(SSC CGL Prelim Exam. 04.02.2007 (First Sitting)

**3.** The ratio of length of two trains is 5 : 3 and the ratio of their speed is 6 : 5. The ratio of time taken by them to cross a pole is
(1) 5 : 6 (2) 11 : 8
(3) 25 : 18 (4) 27 : 16
(SSC CGL Prelim Exam. 04.02.2007 (Second Sitting)

**4.** A train starts from *A* at 7 a.m. towards *B* with speed 50 km/h. Another train starts from *B* at 8 a.m. with speed 60 km/h towards *A*. Both of them meet at 10 a.m. at *C*. The ratio of the distance *AC* to *BC* is
(1) 5 : 6 (2) 5 : 4
(3) 6 : 5 (4) 4 : 5
(SSC CGL Prelim Exam. 04.02.2007 (Second Sitting)

**5.** Two trains started at the same time, one from A to B and the other from B to A. If they arrived at B and A respectively 4 hours and 9 hours after they passed each other, the ratio of the speed of the two trains was
(1) 2 : 1 (2) 3 : 2
(3) 4 : 3 (4) 5 : 4
(SSC CGL Prelim Exam. 08.02.2004 (Ist Sitting) & (SSC CGL Prelim Exam. 27.07.2008 (First Sitting)

**6.** The speed of two trains are in the ratio 6 : 7. If the second train runs 364 km in 4 hours, then the speed of first train is
(1) 60 km/hr (2) 72 km/hr
(3) 78 km/hr (4) 84 km/hr
(SSC CPO S.I. Exam 12.12.2010 (Paper-I)

**7.** A truck covers a distance of 550 metres in 1 minute whereas a bus covers a distance of 33 kms in 45 minutes. The ratio of their speed is :
(1) 4 : 3 (2) 3 : 5
(3) 3 : 4 (4) 50 : 3
(SSC CGL Prelim Exam. 08.02.2004 (First Sitting)

**8.** Three cars travelled distance in the ratio 1 : 2 : 3. If the ratio of the time of travel is 3 : 2 : 1, then the ratio of their speed is
(1) 3 : 9 : 1 (2) 1 : 3 : 9
(3) 1 : 2 : 4 (4) 4 : 3 : 2
(SSC CPO S.I. Exam. 06.09.2009)

**9.** *A* and *B* run a 5 km race on a round course of 400 m. If their speed are in the ratio 5 : 4, the number of times, the winner passes the other, is
(1) 1 (2) 2
(3) 3 (4) 5
(SSC CGL Prelim Exam. 04.02.2007 (Second Sitting)

**10.** A cyclist, after cycling a distance of 70 km on the second day, finds that the ratio of distance covered by him on the first two days is 4 : 5. If he travels a distance of 42 km. on the third day, then the ratio of distance travelled on the third day and the first day is :
(1) 4 : 3 (2) 3 : 2
(3) 3 : 4 (4) 2 : 3
(SSC Multi-Tasking Staff Exam. 10.03.2013)

**11.** A certain distance is covered by a cyclist at a certain speed. If a jogger covers half the distance in double the time, the ratio of the speed of the jogger to that of the cyclist is
(1) 1 : 4 (2) 4 : 1
(3) 1 : 2 (4) 2 : 1
(SSC GL Tier-I Exam. 19.05.2013 (Ist Sitting) & (SSC Graduate Level Tier-II Exam. 29.09.2013)

**12.** It takes 8 hours for a 600 km journey, if 120 km is done by train and the rest by car. It takes 20 minutes more if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the car is
(1) 2 : 3 (2) 3 : 2
(3) 3 : 4 (4) 4 : 3
(SSC CGL Tier-I Exam. 19.10.2014 TF No. 022 MH 3)

**13.** It takes eight hours for a 600 km journey, if 120 km is done by train and the rest by car. It takes 20 minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the car is :
(1) 3 : 5 (2) 3 : 4
(3) 4 : 3 (4) 4 : 5
(SSC CGL Tier-I (CBE) Exam. 02.09.2016) (Ist Sitting)

**14.** A truck covers a distance of 550 metre in one minute where as a bus covers a distance of 33 km in $\frac{3}{4}$ hour. Then the ratio of their speeds is :
(1) 1 : 3 (2) 2 : 3
(3) 3 : 4 (4) 1 : 4
(SSC CGL Tier-I (CBE) Exam. 03.09.2016 (IIIrd Sitting)

**15.** A car travels 80 km. in 2 hours and a train travels 180 km. in 3 hours. The ratio of the speed of the car to that of the train is :
(1) 2 : 3 (2) 3 : 2
(3) 3 : 4 (4) 4 : 3
(SSC CGL Tier-I (CBE) Exam. 04.09.2016 (IIIrd Sitting)

**16.** The speeds of three cars are in the ratio of 1 : 3 : 5. The ratio among the time taken by these cars to travel the same distance is
(1) 3 : 5 : 15 (2) 15 : 3 : 5
(3) 15 : 5 : 3 (4) 5 : 3 : 1
(SSC Multi-Tasking Staff Exam. 30.04.2017)

## TYPE–VIII

**1.** A thief is noticed by a policeman from a distance of 200m. The thief starts running and the policeman chases him. The thief and the policeman run at the rate of 10 km./hr and 11 km./hr respectively. What is the distance between them after 6 minutes ?
(1) 100 m (2) 190 m
(3) 200 m (4) 150 m
(SSC CGL Prelim Exam. 27.02.2000 (First Sitting)

**2.** A moving train, 66 metres long, overtakes another train of 88 metres long, moving in the same direction in 0.168 minutes. If the second train is moving at 30 km/hr, at what speed is the first train moving ?
(1) 85 km/hr. (2) 50 km/hr.
(3) 55 km/hr. (4) 25 km/hr.
(SSC CPO S.I. Exam. 07.09.2003)

**3.** A constable is 114 metres behind a thief. The constable runs 21 metres and the thief runs 15 metres in a minute. In what time will the constable catch the thief ?
(1) 19 minutes (2) 18 minutes
(3) 17 minutes (4) 16 minutes
(SSC CPO S.I. Exam. 07.09.2003)

**4.** How much time does a train, 50 m long, moving at 68 km/hour take to pass another train, 75 m long, moving at 50 km/hour in the same direction ?
(1) 5 seconds (2) 10 seconds
(3) 20 seconds (4) 25 seconds
(SSC CPO S.I. Exam. 05.09.2004)

**5.** A constable follows a thief who is 200 m ahead of the constable. If the constable and the thief run at speed of 8 km/hour and 7 km/hour respectively, the constable would catch the thief in
(1) 10 minutes (2) 12 minutes
(3) 15 minutes (4) 20 minutes
(SSC CPO S.I. Exam. 05.09.2004)

**6.** Two trains are running with speed 30 km/hr and 58 km/hr in the same direction. A man in the slower train passes the faster train in 18 seconds. The length (in metres) of the faster train is :
(1) 70 (2) 100
(3) 128 (4) 140
(SSC CPO S.I. Exam. 26.05.2005)

**7.** Two trains travel in the same direction at the speed of 56 km/h and 29 km/h respectively. The faster train passes a man in the slower train in 10 seconds. The length of the faster train (in metres) is
(1) 100 (2) 80
(3) 75 (4) 120
(SSC CGL Prelim Exam. 04.02.2007 (Second Sitting)

**8.** A bus moving at a speed of 45 km/hr overtakes a truck 150 metres ahead going in the same direction in 30 seconds. The speed of the truck is
(1) 27 km/hr (2) 24 km/hr
(3) 25 km/hr (4) 28 km/hr
(SSC Data Entry Operator Exam. 31.08.2008)

**9.** Two trains of equal length are running on parallel lines in the same direction at 46 km/h and 36 km/h. The faster train passes, the slower train in 36 seconds. The length of each train is :
(1) 82 m (2) 50 m
(3) 80 m (4) 72 m
(SSC CHSL DEO & LDC Exam. 21.10.2012 (IInd Sitting)

**10.** Two trains start from a certain place on two parallel tracks in the same direction. The speed of the trains are 45 km/hr and 40 km/hr respectively. The distance between the two trains after 45 minutes will be
(1) 2 km 500 m (2) 2 km 750 m
(3) 3 km 750 m (4) 3 km 250 m
(SSC Assistant Grade-III Exam. 11.11.2012 (IInd Sitting)

**11.** A boy started from his house by bicycle at 10 a.m. at a speed of 12 km per hour. His elder brother started after 1 hr 15 mins by scooter along the same path and caught him at 1.30 p.m. The speed of the scooter will be (in km/hr)

(1) 4.5 (2) 36

(3) $18\frac{2}{3}$ (4) 9

(SSC FCI Assistant Grade-III Main Exam. 07.04.2013)

**12.** A policeman goes after a thief who has 100 metres start, if the policeman runs a kilometre in 8 min, and the thief a km in 10 min, the distance covered by thief before he is over-powered is

(1) 350 m (2) 400 m

(3) 320 m (4) 420 m

(SSC Graduate Level Tier-I Exam. 21.04.2013 IInd Sitting)

**13.** Two trains are running 40 km/hr and 20 km/hr respectively in the same direction. The fast train completely passes a man sitting in the slow train in 5 seconds. The length of the fast train is

(1) $23\frac{2}{9}$ m (2) 27 m

(3) $27\frac{7}{9}$ m (3) 23 m

(SSC Graduate Level Tier-II Exam. 29.09.2013

**14.** A train is moving at a speed of 80 km/h and covers a certain distance in 4.5 hours. The speed of the train to cover the same distance in 4 hours is

(1) 100 km/h (2) 70 km/h

(3) 85 km/h (4) 90 km/h

(SSC CHSL DEO & LDC Exam. 20.10.2013)

**15.** Two trains 180 metres and 120 metres in length are running towards each other on parallel tracks, one at the rate 65 km/hour and another at 55 km/hour. In how many seconds will they be clear of each other from the moment they meet ?

(1) 6 (2) 9

(3) 12 (4) 15

(SSC CHSL DEO & LDC Exam. 10.11.2013, Ist Sitting)

**16.** Two trains, of same length, are running on parallel tracks in the same direction with speed 60 km/hour and 90 km/hour respectively. The latter completely crosses the former in 30 seconds. The length of each train (in metres) is

(1) 125 (2) 150

(3) 100 (4) 115

(SSC CHSL DEO & LDC Exam. 10.11.2013, IInd Sitting)

**17.** Two trains, 80 metres and 120 metres long, are running at the speed of 25 km/hr and 35 km/hr respectively in the same direction on parallel tracks. How many seconds will they take to pass each other ?

(1) 48 (2) 64

(3) 70 (4) 72

(SSC CPO S.I. Exam 12.12.2010 (Paper-I)

**18.** A goods train starts running from a place at 1 P.M. at the rate of 18 km/hour. Another goods train starts from the same place at 3 P.M. in the same direction and overtakes the first train at 9 P.M. The speed of the second train in km/hr is

(1) 24 (2) 30

(3) 15 (4) 18

(SSC Multi-Tasking Staff Exam. 17.03.2013, Ist Sitting)

**19.** Two trains 125 metres and 115 metres in length, are running towards each other on parallel lines, one at the rate of 33 km/hr and the other at 39 km/hr. How much time (in seconds) will they take to pass each other from the moment they meet ?

(1) 8 (2) 10

(3) 12 (4) 15

(SSC CGL Tier-I Re-Exam. (2013) 20.07.2014 (Ist Sitting)

**20.** A thief steals a car at 1.30 p.m. and drives it off at 40 km/hr. The theft is discovered at 2 p.m. and the owner sets off in another car at 50 km/hr. He will overtake the thief at

(1) 5 p.m. (2) 4 p.m.

(3) 4.30 p.m. (4) 6 p.m.

(SSC CGL Tier-I Re-Exam. (2013) 20.07.2014 (IInd Sitting)

**21.** Two trains of equal length are running on parallel lines in the same direction at the rate of 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 seconds. The length of each train is

(1) 50 m (2) 72 m

(3) 80 m (4) 82 m

(SSC CGL Tier-II Exam. 21.09.2014)

**22.** Two trains start from stations A and B and travel towards each other at speeds of 50 kmph and 60 kmph respectively. At the time of their meeting, the second train has travelled 120 km more than the first. The distance between A and B is

(1) 1200 km (2) 1440 km

(3) 1320 km (4) 990 km

(SSC CHSL DEO & LDC Exam. 16.11.2014)

**23.** The distance between two places A and B is 60 km. Two cars start at the same time from A and B, travelling at the speeds of 35 km/h and 25 km/h, respectively. If the cars run in the same direction, then they will meet after ( in hours)

(1) 6.5 (2) 6.2

(3) 6 (4) 6.52

(SSC CGL Tier-I (CBE) Exam.11.09.2016) (Ist Sitting)

**24.** A train 'B' speeding with 100 kmph crosses another train C, running in the same direction, in 2 minutes. If the length of the train B and C be 150 metre and 250 metre respectively, what is the speed of the train C (in kmph)?

(1) 75 (2) 88

(3) 95 (4) 110

(SSC CGL Tier-II Online Exam.01.12.2016)

**25.** A passenger train running at the speed of 80 kms./hr leaves the railway station 6 hours after a goods train leaves and overtakes it in 4 hours. What is the speed of the goods train?

(1) 32 kmph (2) 50 kmph

(3) 45 kmph (4) 64 kmph

(SSC CGL Tier-I (CBE) Exam. 01.09.2016) (IInd Sitting)

**26.** Two trains start from a certain place on two parallel tracks in the same direction. The speed of the trains are 45 km/hr. and 40 km/hr respectively. The distance between the two trains after 45 minutes will be
(1) 2.5 km. (2) 2.75 km.
(3) 3.7 km. (4) 3.75 km.
(SSC CGL Tier-I (CBE) Exam. 02.09.2016) (IInd Sitting)

**27.** A thief is stopped by a policeman from a distance of 400 metres. When the policeman starts the chase, the thief also starts running. Assuming the speed of the thief as 5 km/h and that of policeman as 9 km/h, how far the thief would have run, before he is over taken by the policeman ?
(1) 400 metre (2) 600 metre
(3) 500 metre (4) 300 metre
(SSC CHSL (10+2) Tier-I (CBE) Exam. 16.01.2017) (IInd Sitting)

**28.** Two trains of equal length are running on parallel lines in the same direction at 46 km/hour and 36 km/hour. The faster train passes the slower train in 36 seconds. The length of each train is
(1) 72 m (2) 80 m
(3) 82 m (4) 50 m
(SSC Multi-Tasking Staff Exam. 30.04.2017)

## TYPE–IX

**1.** If a man walks 20 km at 5 km/hr, he will be late by 40 minutes. If he walks at 8 km/hr, how early from the fixed time will he reach?
(1) 15 minutes (2) 25 minutes
(3) 50 minutes (4) $1\frac{1}{2}$ hours
(SSC CGL Prelim Exam. 04.07.1999 (First Sitting)

**2.** If a man reduces his speed to 2/3, he takes 1 hour more in walking a certain distance. The time (in hours) to cover the distance with his normal speed is :
(1) 2 (2) 1
(3) 3 (4) 1.5
(SSC CGL Prelim Exam. 27.02.2000 (First Sitting)

**3.** A student rides on bicycle at 8 km/hour and reaches his school 2.5 minutes late. The next day he increases his speed to 10 km/hour and reaches school 5 minutes early. How far is the school from his house ?
(1) $\frac{5}{8}$ km (2) 8 km
(3) 5 km (4) 10 km
(SSC CPO S.I. Exam. 12.01.2003

**4.** A man covered a certain distance at some speed. Had he moved 3 km per hour faster, he would have taken 40 minutes less. If he had moved 2 km per hour slower, he would have taken 40 minutes more. The distance (in km) is :
(1) 20 (2) 35
(3) $36\frac{2}{3}$ (4) 40
(SSC CGL Prelim Exam. 11.05.2003 (First Sitting)

**5.** If a train runs at 40 km/hour, it reaches its destination late by 11 minutes. But if it runs at 50 km/hour, it is late by 5 minutes only. The correct time (in minutes) for the train to complete the journey is
(1) 13 (2) 15
(3) 19 (4) 21
FCI Assistant Grade-III Exam. 25.02.2012 (Paper-I) North Zone (Ist Sitting)

**6.** A student walks from his house at a speed of $2\frac{1}{2}$ km per hour and reaches his school 6 minutes late. The next day he increases his speed by 1 km per hour and reaches 6 minutes before school time. How far is the school from his house ?
(1) $\frac{5}{4}$ km (2) $\frac{7}{4}$ km
(3) $\frac{9}{4}$ km (4) $\frac{11}{4}$ km
(SSC CGL Prelim Exam. 08.02.2004) (Ist Sitting) & (SSC CGL Prelim Exam. 04.02.2007 (First Sitting)

**7.** A boy is late by 9 minutes if he walks to school at a speed of 4 km/hour. If he walks at the rate of 5 km/hour, he arrives 9 minutes early. The distance to his school is
(1) 9 km (2) 5 km
(3) 4 km (4) 6 km
(SSC CPO S.I. Exam. 06.09.2009)

**8.** A car can cover a certain distance in $4\frac{1}{2}$ hours. If the speed is increased by 5 km/hour, it would take $\frac{1}{2}$ hour less to cover the same distance. Find the slower speed of the car.
(1) 50 km/hour (2) 40 km/hour
(3) 45 km/hour (4) 60 km/hour
(SSC CPO S.I. Exam. 06.09.2009)

**9.** Shri X goes to his office by scooter at a speed of 30km/h and reaches 6 minutes earlier. If he goes at a speed of 24 km/h, he reaches 5 minutes late. The distance of his office is
(1) 20 km (2) 21 km
(3) 22 km (4) 24 km
(SSC CGL Tier-1 Exam 19.06.2011 (First Sitting)

**10.** Walking at 5 km/hr a student reaches his school from his house 15 minutes early and walking at 3 km/hr he is late by 9 minutes. What is the distance between his school and his house ?
(1) 5 km (2) 8 km
(3) 3 km (4) 2 km
(SSC CGL Tier-1 Exam 19.06.2011 (Second Sitting)

**11.** A student goes to school at the rate of $2\frac{1}{2}$ km/h and reaches 6 minutes late. If he travels at the speed of 3 km/h. he is 10 minutes early. The distance (in km) between the school and his house is
(1) 5 (2) 4
(3) 3 (4) 1
(SSC CGL Tier-1 Exam. 26.06.2011 (First Sitting)

**12.** When a person cycled at 10 km per hour he arrived at his office 6 minutes late. He arrived 6 minutes early, when he increased his speed by 2 km per hour. The distance of his office from the starting place is
(1) 6 km (2) 7 km
(3) 12 km (4) 16 km
(SSC Multi-Tasking (Non-Technical) Staff Exam. 27.02.2011)

**13.** A train covers a distance between station A and station B in 45 minutes. If the speed of the train is reduced by 5 km/hr, then the same distance is covered in 48 minutes. The distance between station A and B is
(1) 60 km (2) 64 km
(3) 80 km (4) 55 km
(SSC Graduate Level Tier-II Exam.16.09.2012)

**14.** A train covers a distance of 10 km in 12 minutes. If its speed is decreased by 5 km/hr, the time taken by it to cover the same distance will be :
(1) 10 minutes
(2) 13 minutes 20 sec
(3) 13 minutes
(4) 11 minutes 20 sec
(SSC CHSL DEO & LDC Exam. 21.10.2012 (IInd Sitting)

**15.** Walking at a speed of 5 km/hr, a man reaches his office 6 minutes late. Walking at 6 km/hr, he reaches there 2 minutes early. The distance of his office is
(1) 3 km (2) 4 km
(3) 3.5 km (4) 2 km
(SSC Multi-Tasking Staff Exam. 17.03.2013, IInd Sitting)

**16.** If a boy walks from his house to school at the rate of 4 km per hour, he reaches the school 10 minutes earlier than the scheduled time. However, if he walks at the rate of 3 km per hour, he reaches 10 minutes late. Find the distance of his school from his house.
(1) 5 km (2) 4 km
(3) 6 km (4) 4.5 km
(SSC Graduate Level Tier-II Exam. 29.09.2013

**17.** A train travelling at a speed of 55 km/hr travels from place X to place Y in 4 hours. If its speed is increased by 5 km/hr., then the time of journey is reduced by
(1) 25 minutes (2) 35 minutes
(3) 20 minutes (4) 30 minutes
(SSC CGL Tier-I Exam. 26.10.2014)

**18.** If a train runs at 70 km/hour, it reaches its destination late by 12 minutes. But if it runs at 80 km/hour, it is late by 3 minutes. The correct time to cover the journey is
(1) 58 minutes (2) 2 hours
(3) 1 hour (4) 59 minutes
(SSC CGL Tier-I Exam. 19.10.2014 TF No. 022 MH 3)

## TYPE–X

**1.** A train passes a 50 metres long platform in 14 seconds and a man standing on the platform in 10 seconds.The speed of the train is :
(1) 24 km/hr (2) 36km/hr
(3) 40 km/hr (4) 45 km/hr
(SSC CGL Prelim Exam. 27.02.2000 (Second Sitting)

**2.** A train passes a man standing on a platform in 8 seconds and also crosses the platform which is 264 metres long in 20 seconds. The length of the train (in metres) is :
(1) 188 (2) 176
(3) 175 (4) 96
(SSC CGL Prelim Exam. 24.02.2002 (IInd Sitting) & (SSC CGL Prelim Exam. 13.11.2005)

**3.** A train moves past a telegraph post and a bridge 264 m long in 8 seconds and 20 seconds respectively. What is the speed of the train ?
(1) 69.5 km/hr (2) 70 km/hr
(3) 79 km/hr (4) 79.2 km/hr
(SSC CGL Prelim Exam. 08.02.2004 (Second Sitting)

**4.** A person standing on a railway platform noticed that a train took 21 seconds to completely pass through the platform which was 84 m long and it took 9 seconds in passing him. The speed of the train was
(1) 25.2 km/hour
(2) 32.4 km/hour
(3) 50.4 km/hour
(4) 75.6 km/hour
(SSC CPO S.I. Exam. 05.09.2004)

**5.** A moving train passes a platform 50 metres long in 14 seconds and a lamp-post in 10 seconds. The speed of the train is
(1) 24 km/hr. (2) 36 km/hr.
(3) 40 km/hr. (4)45 km/hr.
(SSC CPO S.I. Exam. 07.09.2003)

**6.** A train passes a platform 90 metre long in 30 seconds and a man standing on the platform in 15 seconds. The speed of the train is :
(1) 12.4 kmph (2) 14.6 kmph
(3) 18.4 kmph (4) 21.6 kmph
(SSC CPO S.I. Exam. 16.12.2007)

**7.** A moving train crosses a man standing on a platform and a bridge 300 metres long in 10 seconds and 25 seconds respectively. What will be the time taken by the train to cross a platform 200 metres long ?
(1) $16\frac{2}{3}$ seconds (2) 18 seconds
(3) 20 seconds (4) 22 seconds
(SSC CGL Prelim Exam. 27.07.2008 (First Sitting)

**8.** A train passes a platform 110 m long in 40 seconds and a boy standing on the platform in 30 seconds . The length of the train is
(1) 100 m (2) 110 m
(3) 220 m (4) 330 m
(SSC CPO S.I. Exam. 09.11.2008)

**9.** A train crosses a pole in 15 seconds and a platform 100 metres long in 25 seconds. Its length (in metres) is
(1) 50 (2) 100
(3) 150 (4) 200
(SSC (South Zone) Investigator Exam 12.09.2010)

**10.** Points 'A' and 'B' are 70 km apart on a highway. A car starts from 'A' and another from 'B' at the same time. If they travel in the same direction, they meet in 7 hours, but if they travel towards each-other, they meet in one hour. Find the speed of the two cars (in km/hr).
(1) 20, 30 (2) 40, 30
(3) 30, 50 (4) 20, 40
(SSC Delhi Police S.I. (Sl) Exam. 19.08.2012)

**11.** Two trains 100 metres and 95 metres long respectively pass each other in 27 seconds when they run in the same direction and in 9 seconds when they run in opposite directions. Speed of the two trains are
(1) 44 km/hr, 22 km/hr
(2) 52 km/hr, 26 km/hr
(3) 36 km/hr. 18 km/hr
(4) 40 km/hr, 20 km/hr
(SSC Multi-Tasking Staff Exam. 17.03.2013, Ist Sitting)

**12.** A train passes by a lamp post on a platform in 7 sec. and passes by the platform completely in 28 sec. If the length of the platform is 390 m, then length of the train (in metres) is

(1) 120 (2) 130

(3) 140 (4) 150

(SSC Multi-Tasking Staff Exam. 24.03.2013, Ist Sitting)

**13.** A train moving at a rate of 36 km/hr. crosses a standing man in 10 seconds. It will cross a platform 55 metres long, in :

(1) 6 seconds

(2) 7 seconds

(3) $15\frac{1}{2}$ seconds

(4) $5\frac{1}{2}$ seconds

(SSC Graduate Level Tier-I Exam. 21.04.2013, Ist Sitting)

**14.** A train crosses a platform in 30 seconds travelling with a speed of 60 km/h. If the length of the train be 200 metres, then the length (in metres) of the platform is

(1) 400 (2) 300

(3) 200 (4) 500

(SSC CGL Tier-I Re-Exam. (2013) 27.04.2014)

**15.** A train leaves a station A at 7 am and reaches another station B at 11 am. Another train leaves B at 8 am and reaches A at 11.30 am. The two trains cross one another at

(1) 8:36 am (2) 8:56 am

(3) 9:00 am (4) 9:24 am

(SSC CGL Tier-I Exam. 19.10.2014)

**16.** The time for a train of length 110 metre running at the speed of 72 km/hr to cross a bridge of length 132 metre is

(1) 9.8 seconds

(2) 12.1 seconds

(3) 12.42 seconds

(4) 14.3 seconds

(SSC CGL Tier-I (CBE) Exam. 03.09.2016 (IIIrd Sitting)

**17.** A train 110 metre long is running with a speed of 60 kmph. In what time will it pass a man who is running at 6 kmph in the direction opposite to that in which the train is going ?

(1) 5 seconds (2) 6 seconds

(3) 7 seconds (4) 10 seconds

(SSC CGL Tier-I (CBE) Exam. 06.09.2016 (IInd Sitting)

## TYPE–XI

**1.** In a one-kilometre race A, B and C are the three participants. A can give B a start of 50 m. and C a start of 69 m. The start, which B can allow C is

(1) 17 m. (2) 20 m.

(3) 19 m. (4) 18 m.

(SSC Section Officer (Commercial Audit) Exam. 26.11.2006 (Second Sitting)

**2.** A runs twice as fast as B and B runs thrice as fast as C. The distance covered by C in 72 minutes, will be covered by A in :

(1) 18 minutes (2) 24 minutes

(3) 16 minutes (4) 12 minutes

(SSC CPO S.I. Exam. 16.12.2007)

**3.** In a race of one kilometre, A gives B a start of 100 metres and still wins by 20 seconds. But if A gives B a start of 25 seconds, B wins by 50 metres. The time taken by A to run one kilometre is

(1) 17 seconds

(2) $\frac{500}{29}$ seconds

(3) $\frac{1200}{29}$ seconds

(4) $\frac{700}{29}$ seconds

(SSC CPO S.I. Exam. 09.11.2008)

**4.** In a 100m race, Kamal defeats Bimal by 5 seconds. If the speed of Kamal is 18 Kmph, then the speed of Bimal is

(1) 15.4 kmph (2) 14.5 kmph

(3) 14.4 kmph (4) 14 kmph

(SSC CGL Tier-I Exam. 16.05.2010 (Second Sitting)

**5.** In a race of 1000 m, A can beat B by 100m. In a race of 400 m, B beats C by 40m. In a race of 500m. A will beat C by

(1) 95 m (2) 50 m

(3) 45 m (4) 60 m

(SSC Section Officer (Commercial Audit) Exam. 30.09.2007 (Second Sitting)

**6.** In a race of 800 metres, A can beat B by 40 metres. In a race of 500 metres, B can beat C by 5 metres. In a race of 200 metres, A will beat C by

(1) 11.9 metre (2) 1.19 metre

(3) 12.7 metre (4) 1.27 metre

(SSC CPO S.I. Exam. 16.12.2007)

**7.** In a race of 200 metres, B can give a start of 10 metres to A, and C can give a start of 20 metres to B. The start that C can give to A, in the same race, is

(1) 30 metres (2) 25 metres

(3) 29 metres (4) 27 metres

(SSC CPO S.I. Exam. 16.12.2007)

**8.** A can give 40 metres start to B and 70 metres to C in a race of one kilometre How many metres start can B give to C in a race of one kilometre ?

(1) 30 metre (2) $31\frac{1}{4}$ metre

(3) $31\frac{3}{4}$ metre (4) 32 metre

(SSC CPO S.I. Exam. 09.11.2008)

**9.** A jeep is chasing a car which is 5km ahead. Their respective speed are 90 km/hr and 75 km/hr. After how many minutes will the jeep catch the car ?

(1) 18 min. (2) 20 min.

(3) 24 min. (4) 25 min.

(SSC Data Entry Operator Exam. 02.08.2009)

**10.** A is twice as fast as B, and B is thrice as fast as C is. The journey covered by C in $1\frac{1}{2}$ hours will be covered by A in

(1) 15 minutes (2) 30 minutes

(3) 1 hour (4) 10 minutes

(SSC CGL Tier-II Exam, 2014 12.04.2015 (Kolkata Region) TF No. 789 TH 7)

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

(1) 50 min. (2) 35 min.

(3) 40 min. (4) 45 min.

(SSC CGL Tier-I Exam, 09.08.2015 (Ist Sitting) TF No. 1443088)

**12.** Sarthak completed a marathon in 4 hours and 35 minutes. The marathon consisted of a 10 km run followed by 20 km cycle ride and the remaining distance again a run. He ran the first stage at 6 km/hr and then cycled at 16 km/hr. How much distance did Sarthak cover in total, if his speed in the last run was just half that of his first run?

(1) 5 km. (2) 35 km.

(3) 40 km. (4) 45 km.

(SSC CPO SI, ASI Online Exam.05.06.2016) (IInd Sitting)

**13.** Walking at $\frac{3}{4}$ of his usual speed, a man reaches his office 20 minutes late. Then his usual time for walking to his office is :
(1) 1 hour (2) 30 minutes
(3) 45 minutes (4) 40 minutes
(SSC CPO SI & ASI, Online Exam. 06.06.2016) (IInd Sitting)

**14.** A is faster than B. A and B each walk 24 km. The sum of their speeds is 7 km/hr and the sum of times taken by them is 14 hours. Then A's speed is equal to:
(1) 3 km/hr. (2) 4 km/hr.
(3) 5 km/hr. (4) 7 km/hr.
(SSC CGL Tier-I (CBE) Exam. 27.08.2016) (IInd Sitting)

**15.** Two persons ride towards each other from two places 55 km apart, one riding at 12km/hr and the other at 10 km/hr. In what time will they be 11 km apart?
(1) 2 hours and 30 minutes
(2) 1 hour and 30 minutes
(3) 2 hours
(4) 2 hours and 45 minutes
(SSC CGL Tier-I (CBE) Exam. 02.09.2016) (IInd Sitting)

**16.** A and B start running at the same time and from the same point around a circle. If A can complete one round in 40 seconds and B in 50 seconds, how many seconds will they take to reach the starting point simultaneously ?
(1) 10 (2) 200
(3) 90 (4) 2000
(SSC CGL Tier-I (CBE) Exam. 28.08.2016 (IST Sitting)

**17.** Rubi goes to a multiplex at the speed of 3 km/hr to see a movie and reaches 5 minutes late. If she travels at the speed of 4 km/hr she reaches 5 minutes early. Then the distance of the multiplex from her starting point is
(1) 2 km. (2) 5 km.
(3) 2 metre (4) 5 metre
(SSC CGL Tier-II (CBE) Exam. 12.01.2017)

## TYPE–XII

**1.** I walk a certain distance and ride back taking a total time of 37 minutes. I could walk both ways in 55 minutes. How long would it take me to ride both ways?
(1) 9.5 minutes (2) 19 minutes
(3) 18 minutes (4) 20 minutes
(SSC CGL Prelim Exam. 27.02.2000 (First Sitting)

**2.** A and B start at the same time with speed of 40 km/hr and 50 km/hr respectively. If in covering the journey A takes 15 minutes longer than B, the total distance of the journey is :
(1) 46 km (2) 48 km
(3) 50 km (4) 52 km
(SSC CGL Prelim Exam. 27.02.2000 (Second Sitting)

**3.** A man can reach a certain place in 30 hours. If he reduces his speed by $\frac{1}{15}$th, he goes 10 km less in that time. Find his speed per hour.
(1) 6 km/hr (2) $5\frac{1}{2}$ km/hr
(3) 4 km/hr (4) 5 km/hr
(SSC CGL Prelim Exam. 24.02.2002 (Second Sitting)

**4.** A, B and C start at the same time in the same direction to run around a circular stadium. A completes a round in 252 seconds, B in 308 seconds and C in 198 seconds, all starting at the same point. After what time will they next meet at the starting point again ?
(1) 46 minutes 12 seconds
(2) 45 minutes
(3) 42 minutes 36 seconds
(4) 26 minutes 18 seconds
(SSC CGL Prelim Exam. 11.05.2003 (First Sitting)

**5.** A man walks a certain distance and rides back in 4 hours 30 minutes. He could ride both ways in 3 hours. The time required by the man to walk both ways is
(1) 4 hours 30 minutes
(2) 4 hours 45 minutes
(3) 5 hours
(4) 6 hours
(SSC CPO S.I. Exam. 07.09.2003)

**6.** A person, who can walk down a hill at the rate of $4\frac{1}{2}$ km/hour and up the hill at the rate of 3 km/hour, ascends and comes down to his starting point in 5 hours. How far did he ascend ?
(1) 13.5 km (2) 3 km
(3) 15 km (4) 9 km
(SSC CPO S.I. Exam. 05.09.2004)

**7.** A walks at a uniform rate of 4 km an hour; and 4 hours after his start, B bicycles after him at the uniform rate of 10 km an hour. How far from the starting point will B catch A ?
(1) 16.7 km (2) 18.6 km
(3) 21.5 km (4) 26.7 km
(SSC CPO S.I. Exam. 26.05.2005)

**8.** A car completes a journey in 10 hours. If it covers half of the journey at 40 kmph and the remaining half at 60 kmph, the distance covered by car is
(1) 400 km (2) 480 km
(3) 380 km (4) 300 km
(SSC Section Officer (Commercial Audit) Exam. 25.09.2005)

**9.** *A* and *B* run a kilometre and *A* wins by 25 sec. *A* and *C* run a kilometre and *A* wins by 275 m. When *B* and *C* run the same distance, *B* wins by 30 sec. The time taken by *A* to run a kilometre is
(1) 2 min 25 sec
(2) 2 min 50 sec
(3) 3 min 20 sec
(4) 3 min 30 sec
(SSC CGL Prelim Exam. 13.11.2005 (Second Sitting)

**10.** Two cars start at the same time from one point and move along two roads at right angles to each other. Their speeds are 36 km/hour and 48 km/hour respectively. After 15 seconds the distance between them will be
(1) 400 m (2) 150 m
(3) 300 m (4) 250 m
(SSC CPO S.I. Exam. 03.09.2006)

**11.** In a kilometre race, A beats B by 30 seconds and B beats C by 15 seconds. If A beats C by 180 metres, the time taken by A to run 1 kilometre is
(1) 250 seconds (2) 205 seconds
(3) 200 seconds (4) 210 seconds
(SSC CPO S.I. Exam. 03.09.2006)

**12.** Two guns are fired from the same place at an interval of 6 minutes. A person approaching the place observes that 5 minutes 52 seconds have elapsed between the hearing of the sound of the two guns. If the velocity of the sound is 330 m/sec, the man was approaching that place at what speed (in km/hr) ?
(1) 24 (2) 27
(3) 30 (4) 36
(SSC CGL Prelim Exam. 04.02.2007 (First Sitting)

**13.** Ram arrives at a Bank 15 minutes earlier than scheduled time if he drives his car at 42 km/hr. If he drives car at 35 km/hr he arrives 5 minutes late. The distance of the Bank from his starting point is

(1) 70 km (2) 210 km

(3) 72 km (4) 60 km

(SSC CGL Prelim Exam. 04.02.2007 (Second Sitting)

**14.** A and B started at the same time from the same place for a certain destination. B walking at $\frac{5}{6}$ of A's speed reached the destination 1 hour 15 minutes after A. B reached the destination in

(1) 6 hours 45 minutes

(2) 7 hours 15 minutes

(3) 7 hours 30 minutes

(4) 8 hours 15 minutes

(SSC CGL Prelim Exam. 27.07.2008 (First Sitting)

**15.** In covering a distance of 30 km, Abhay takes 2 hours more than Sameer. If Abhay doubles his speed, then he would take 1 hour less than Sameer. Abhay's speed (in km/hr) is

(1) 5 (2) 6

(3) 6.25 (4) 7.5

(SSC Constable (GD) & Rifleman (GD) Exam. 22.04.2012 (IInd Sitting)

**16.** A man takes 6 hours 15 minutes in walking a distance and riding back to the starting place. He could walk both ways in 7 hours 45 minutes. The time taken by him to ride both ways, is

(1) 4 hours

(2) 4 hours 30 minutes

(3) 4 hours 45 minutes

(4) 5 hours

(SSC CGL Prelim Exam. 27.07.2008 (First Sitting)

**17.** A man completed a certain journey by a car. If he covered 30% of the distance at the speed of 20km/hr, 60% of the distance at 40km/hr and the remaining distance at 10km/hr; his average speed for the whole journey was

(1) 25 km/hr (2) 28 km/hr

(3) 30 km/hr (4) 33 km/hr

(SSC CGL Prelim Exam. 27.07.2008 (Second Sitting)

**18.** From two places, 60 km apart, A and B start towards each other at the same time and meet each other after 6 hours. Had A travelled with $\frac{2}{3}$ of his speed and B travelled with double of his speed, they would have met after 5 hours. The speed of A is

(1) 4 km/hr. (2) 6 km/hr.

(3) 10 km/hr. (4) 12 km/hr.

(SSC CGL Prelim Exam. 27.07.2008 (Second Sitting)

**19.** P and Q are 27 km away. Two trains with speed of 24 km/hr and 18 km/hr respectively start simultaneously from P and Q and travel in the same direction. They meet at a point R beyond Q. Distance QR is

(1) 126 km (2) 81 km

(3) 48 km (4) 36 km

(SSC Graduate Level Tier-II Exam.16.09.2012)

**20.** Ravi and Ajay start simultaneously from a place A towards B, 60 km apart. Ravi's speed is 4km/hr less than that of Ajay. Ajay, after reaching B, turns back and meets Ravi at a place 12 km away from B. Ravi's speed is

(1) 12 km/hr (2) 10 km/hr

(3) 8 km/hr (4) 6 km/hr

(SSC CGL Prelim Exam. 27.07.2008 (Second Sitting)

**21.** A man travelled a distance of 61 km in 9 hours, 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 was

(1) 12 km (2) 16 km

(3) 20 km (4) 24 km

(SSC (South Zone) Investigator Exam 12.09.2010)

**22.** If I walk at 5 km/hour, I miss a train by 7 minutes. If, however, I walk at 6 km/hour, I reach the station 5 minutes before the departure of the train. The distance (in km) between my house and the station is

(1) 6 (2) 5

(3) 4 (4) 3

(SSC CGL Tier-1 Exam. 26.06.2011 (Second Sitting)

**23.** A man has to be at a certain place at a certain time. He finds that he shall be 20 minutes late if he walks at 3 km/hour speed and 10 minutes earlier if he walks at a speed of 4 km/hour. The distance he has to walk is

(1) 24 km (2) 12·5 km

(3) 10 km (4) 6 km

(SSC CPO (SI, ASI & Intelligence Officer) Exam 28.08.2011 (Paper-I)

**24.** Ravi travels 300 km partly by train and partly by car. He takes 4 hours to reach, if he travels 60 km by train and rest by car. He will take 10 minutes more if he were to travel 100 km by train and rest by car. The speed of the train is :

(1) 50 km/hr (2) 60 km/hr

(3) 100 km/hr (4) 120 km/hr

FCI Assistant Grade-III Exam. 05.02.2012 (Paper-I) East Zone (IInd Sitting)

**25.** A is twice as fast runner as B, and B is thrice as fast runner as C. If C travelled a distance in 1 hour 54 minutes, the time taken by B to cover the same distance is

(1) 19 minutes (2) 38 minutes

(3) 51 minutes (4) 57 minutes

(SSC SAS Exam. 26.06.2010 (Paper-1)

**26.** Two trains, A and B, start from stations X and Y towards Y and X respectively. After passing each other, they take 4 hours 48 minutes and 3 hours 20 minutes to reach Y and X respectively. If train A is moving at 45 km/hr., then the speed of the train B is

(1) 60 km/hr (2) 64.8 km/hr

(3) 54 km/hr (4) 37.5 km/hr

(SSC Graduate Level Tier-II Exam.16.09.2012)

**27.** Ram travelled 1200 km by air which formed $\frac{2}{5}$ of his trip. He travelled one-third of the trip by car and the rest by train. The distance (in km) travelled by train was

(1) 480 (2) 800

(3) 1600 (4) 1800

(SSC Graduate Level Tier-I Exam. 21.04.2013 IInd Sitting)

**28.** A, B, C walk 1 km in 5 minutes, 8 minutes and 10 minutes respectively. C starts walking from a point, at a certain time, B starts from the same point 1 minutes later and A starts from the same point 2 minutes later than C. Then A meets B and C after

(1) $\frac{5}{3}$ min, 2 min

(2) 1 min, 2 min

(3) 2 min, 3 min

(4) $\frac{4}{3}$ min, 3 min

(SSC Graduate Level Tier-I Exam. 21.04.2013)

**29.** Two cars are moving with speed $v_1$, $v_2$ towards a crossing along two roads. If their distance from the crossing be 40 metres and 50 metres at an instant of time then they do not collide if their speed are such that

(1) $v_1 : v_2 = 16 : 25$

(2) $v_1 : v_2 \neq 4 : 5$

(3) $v_1 : v_2 \neq 5 : 4$

(4) $v_1 : v_2 = 25 : 16$

(SSC Graduate Level Tier-I Exam. 19.05.2013 Ist Sitting)

**30.** The distance between place A and B is 999 km. An express train leaves place A at 6 am and runs at a speed of 55.5 km/hr. The train stops on the way for 1 hour 20 minutes. It reaches B at

(1) 1.20 am (2) 12 pm

(3) 6 pm (4) 11 pm

(SSC Graduate Level Tier-II Exam. 29.09.2013)

**31.** A speed of 45 km per hour is the same as

(1) 12.5 metre/seccond

(2) 13 metre/seccond

(3) 15 metre/seccond

(4) 12 metre/seccond

(SSC CGL Tier-I Exam. 26.10.2014)

**32.** If a distance of 50 m is covered in 1 minute, that 90 m in 2 minutes and 130 m in 3 minutes find the distance covered in 15 minutes.

(1) 610 m (2) 750 m

(3) 1000 m (4) 650 m

(SSC CGL Tier-II Exam. 21.09.2014)

**33.** A train leaves station A at 5 AM and reaches station B at 9 AM on the same day. Another train leaves station B at 7 AM and reaches station A at 10:30 AM on the same day. The time at which the two trains cross each other is :

(1) 8 : 26 AM (2) 7: 36 AM

(3) 7: 56 AM (4) 8 AM

(SSC CGL Tier-I Exam, 16.08.2015 (IInd Sitting) TF No. 2176783)

**34.** A plane can cover 6000 km in 8 hours. If the speed is increased by 250 kmph, then the time taken by the plane to cover 9000 km is

(1) 8 hours (2) 6 hours

(3) 5 hours (4) 9 hours

(SSC Constable (GD) Exam, 04.10.2015, Ist Sitting)

**35.** A man travels 450 km to his home partly by train and partly by car. He takes 8 hours 40 minutes if he travels 240 km by train and rest by car. He takes 20 minutes more if he travels 180 km by train and the rest by car. The speed of the car in km/hr is

(1) 45 (2) 50

(3) 60 (4) 48

(SSC CGL Tier-II Online Exam.01.12.2016)

**36.** Two rifles are fired from the same place at a difference of 11 min. 45 seconds. But a man who is coming towards the same place in a train hears the second sound after 11 minutes. Find the speed of the train (Assuming speed of sound = 330 m/s).

(1) 72 km/h (2) 36 km/h

(3) 81 km/h (4) 108 km/h

(SSC CGL Tier-I (CBE) Exam. 27.08.2016) (IInd Sitting)

**37.** A man can cover a certain distance in 3 hours 36 minutes if he walks at the rate of 5 km/hr. If he covers the same distance on cycle at the rate of 24 km/hr, then the time taken by him in minutes is

(1) 40 (2) 45

(3) 50 (4) 55

(SSC CGL Tier-II (CBE) Exam. 30.11.2016)

**38.** Due to inclement weather, an air plane reduced its speed by 300 km/hr, and reached the destination of 1200 km late by 2hrs. Then the schedule duration of the flight was

(1) 1 hour (2) 1.5 hours

(3) 2 hours (4) 2.5 hours

(SSC CGL Tier-II (CBE) Exam. 30.11.2016)

**39.** A motor cycle gives an average of 45 km per litre. If the cost of petrol is Rs. 20 per litre, the amount required to complete a journey of 540 km is, (in Rupees)

(1) 120 (2) 360

(3) 200 (4) 240

(SSC CGL Tier-I (CBE) Exam. 06.09.2016 (IIIrd Sitting)

**40.** Ravi has a roadmap with a scale of 1.5 cm for 18 km. He drives on that road for 72 km. What would be his distance covered in that map?

(1) 4 cm (2) 6 cm

(3) 8 cm (4) 7 cm

(SSC CGL Tier-I (CBE) Exam. 02.09.2016 (IInd Sitting)

**41.** A farmer travelled a distance of 61 km in 9 hours. He travelled partly on foot at a speed of 4 km/hour and partly on bicycle at a speed of 9 km/hour. The distance travelled on foot is :

(1) 14 km. (2) 16 km.

(3) 20 km. (4) 18 km.

(SSC CGL Tier-I (CBE) Exam. 03.09.2016 (IInd Sitting)

**42.** A man travelled a distance of 61 km. in 9 hours, partly by walking at the speed of 4 km./hr. and partly on bicycle at the speed of 9 km./hr. The distance covered by walking is

(1) 16 km. (2) 12 km.

(3) 15 km. (4) 17 km.

(SSC CGL Tier-I (CBE) Exam. 11.09.2016 (IInd Sitting)

**43.** Sound travels 330 metre in a second.When the sound follows the flash of lightning after 10 seconds the thunder cloud will be at a distance of :

(1) 1300 metre (2) 2000 metre

(3) 3650 metre (4) 3300 metre

(SSC CGL Tier-I (CBE) Exam. 27.10.2016 (Ist Sitting)

**44.** A man travels for 14 hours 40 minutes. He covers half of the journey by train at the rate of 60 km/hr and rest half by road at the rate of 50 km/hr. The distance travelled by him is :

(1) 720 km (2) 800 km

(3) 960 km (4) 1000 km

(SSC CGL Tier-I (CBE) Exam. 27.10.2016 (Ist Sitting)

**45.** Two donkeys are standing 400 metres apart. First donkey can run at a speed of 3 m/sec and the second can run at 2 m/sec. If two donkeys run towards each other after how much time (in seconds) will they bump into each other?

(1) 60 (2) 80

(3) 400 (4) 40

(SSC CGL Tier-II (CBE) Exam. 12.01.2017)

**46.** A and B are 15 kms apart and when travelling towards each other meet after half an hour whereas they meet two and a half hours later if they travel in the same direction. The faster of the two travels at the speed of
(1) 15 km./hr. (2) 18 km./hr.
(3) 10 km./hr. (4) 8 km./hr.
(SSC CGL Tier-II (CBE) Exam. 12.01.2017)

**47.** A man walking at 3 km/hour crosses a square field diagonally in 2 minutes. The area of the field (in square metre) is
(1) 3000 (2) 5000
(3) 6000 (4) 2500
(SSC Multi-Tasking Staff Exam. 30.04.2017)

## SHORT ANSWERS

### TYPE-I

| | | | |
|---|---|---|---|
| **1.** (2) | **2.** (4) | **3.** (4) | **4.** (2) |
| **5.** (4) | **6.** (4) | **7.** (1) | **8.** (3) |
| **9.** (1) | **10.** (1) | **11.** (4) | **12.** (2) |
| **13.** (2) | **14.** (4) | **15.** (1) | **16.** (3) |
| **17.** (1) | **18.** (2) | **19.** (2) | **20.** (2) |
| **21.** (4) | **22.** (3) | **23.** (2) | **24.** (2) |
| **25.** (1) | **26.** (2) | **27.** (2) | **28.** (1) |
| **29.** (1) | **30.** (4) | **31.** (2) | **32.** (2) |
| **33.** (2) | **34.** (1) | **35.** (4) | **36.** (3) |
| **37.** (4) | **38.** (1) | **39.** (1) | **40.** (*) |
| **41.** (1) | **42.** (4) | **43.** (3) | **44.** (3) |
| **45.** (1) | **46.** (4) | **47.** (3) | **48.** (1) |
| **49.** (1) | **50.** (3) | **51.** (4) | **52.** (4) |
| **53.** (3) | **54.** (2) | **55.** (4) | |

### TYPE-II

| | | | |
|---|---|---|---|
| **1.** (3) | **2.** (3) | **3.** (3) | **4.** (2) |
| **5.** (2) | **6.** (3) | **7.** (3) | **8.** (4) |
| **9.** (4) | **10.** (4) | **11.** (3) | **12.** (1) |
| **13.** (2) | **14.** (4) | **15.** (3) | **16.** (2) |
| **17.** (3) | **18.** (2) | **19.** (1) | **20.** (4) |
| **21.** (1) | **22.** (2) | **23.** (1) | **24.** (4) |
| **25.** (3) | **26.** (2) | **27.** (3) | |

### TYPE-III

| | | | |
|---|---|---|---|
| **1.** (3) | **2.** (3) | **3.** (2) | **4.** (2) |
| **5.** (1) | **6.** (3) | **7.** (1) | **8.** (3) |
| **9.** (4) | **10.** (3) | **11.** (4) | **12.** (3) |
| **13.** (4) | **14.** (3) | **15.** (2) | **16.** (4) |
| **17.** (1) | **18.** (1) | **19.** (1) | **20.** (4) |
| **21.** (1) | **22.** (2) | **23.** (4) | **24.** (1) |
| **25.** (1) | **26.** (3) | **27.** (4) | **28.** (4) |
| **29.** (3) | **30.** (2) | **31.** (2) | |

### TYPE-IV

| | | | |
|---|---|---|---|
| **1.** (3) | **2.** (2) | **3.** (2) | **4.** (3) |
| **5.** (2) | **6.** (3) | **7.** (2) | **8.** (2) |
| **9.** (1) | **10.** (4) | **11.** (4) | **12.** (2) |
| **13.** (3) | **14.** (3) | **15.** (3) | **16.** (1) |
| **17.** (1) | **18.** (3) | **19.** (2) | **20.** (2) |
| **21.** (3) | **22.** (3) | **23.** (3) | **24.** (3) |
| **25.** (1) | **26.** (4) | **27.** (1) | |

### TYPE-V

| | | | |
|---|---|---|---|
| **1.** (3) | **2.** (3) | **3.** (2) | **4.** (3) |
| **5.** (2) | **6.** (1) | **7.** (1) | **8.** (2) |
| **9.** (2) | **10.** (2) | **11.** (2) | **12.** (1) |
| **13.** (3) | **14.** (2) | | |

### TYPE-VI

| | | | |
|---|---|---|---|
| **1.** (2) | **2.** (1) | **3.** (2) | **4.** (3) |
| **5.** (3) | **6.** (1) | **7.** (2) | **8.** (4) |
| **9.** (2) | **10.** (1) | **11**. (1) | **12.** (2) |
| **13.** (1) | **14.** (1) | **15.** (1) | **16.** (2) |
| **17.** (3) | **18.** (3) | **19.** (1) | **20.** (2) |
| **21.** (4) | **22.** (3) | **23.** (3) | **24.** (1) |
| **25.** (4) | **26.** (4) | **27.** (2) | **28.** (1) |
| **29.** (1) | **30.** (4) | **31.** (3) | **32.** (3) |
| **33.** (4) | **34.** (1) | **35.** (2) | **36.** (3) |
| **37.** (1) | **38.** (1) | **39.** (4) | |

### TYPE-VII

| | | | |
|---|---|---|---|
| **1.** (3) | **2.** (1) | **3.** (3) | **4.** (2) |
| **5.** (2) | **6.** (3) | **7.** (3) | **8.** (2) |
| **9.** (3) | **10.** (3) | **11.** (1) | **12.** (3) |
| **13.** (2) | **14.** (3) | **15.** (1) | **16.** (1) |

### TYPE-VIII

| | | | |
|---|---|---|---|
| **1.** (1) | **2.** (1) | **3.** (1) | **4.** (4) |
| **5.** (2) | **6.** (4) | **7.** (3) | **8.** (1) |
| **9.** (2) | **10.** (3) | **11.** (3) | **12.** (2) |
| **13.** (3) | **14.** (4) | **15.** (2) | **16.** (1) |
| **17.** (4) | **18.** (1) | **19.** (3) | **20.** (2) |
| **21.** (1) | **22.** (3) | **23.** (3) | **24.** (2) |
| **25.** (1) | **26.** (4) | **27.** (3) | **28.** (4) |

### TYPE-IX

| | | | |
|---|---|---|---|
| **1.** (3) | **2.** (1) | **3.** (3) | **4.** (4) |
| **5.** (3) | **6.** (2) | **7.** (4) | **8.** (2) |
| **9.** (3) | **10.** (3) | **11.** (2) | **12.** (3) |
| **13.** (1) | **14.** (2) | **15.** (2) | **16.** (2) |
| **17.** (3) | **18.** (3) | | |

### TYPE-X

| | | | |
|---|---|---|---|
| **1.** (4) | **2.** (2) | **3.** (4) | **4.** (1) |
| **5.** (4) | **6.** (4) | **7.** (3) | **8.** (4) |
| **9.** (3) | **10.** (2) | **11.** (2) | **12.** (2) |
| **13.** (3) | **14.** (2) | **15.** (4) | **16.** (2) |
| **17.** (2) | | | |

### TYPE-XI

| | | | |
|---|---|---|---|
| **1.** (2) | **2.** (4) | **3.** (2) | **4.** (3) |
| **5.** (1) | **6.** (1) | **7.** (3) | **8.** (2) |
| **9.** (2) | **10.** (1) | **11.** (3) | **12.** (2) |
| **13.** (1) | **14.** (2) | **15.** (3) | **16.** (2) |
| **17.** (1) | | | |

### TYPE-XII

| | | | |
|---|---|---|---|
| **1.** (2) | **2.** (3) | **3.** (4) | **4.** (1) |
| **5.** (4) | **6.** (4) | **7.** (4) | **8.** (2) |
| **9.** (1) | **10.** (4) | **11.** (2) | **12.** (2) |
| **13.** (1) | **14.** (3) | **15.** (1) | **16.** (3) |
| **17.** (1) | **18.** (2) | **19.** (2) | **20.** (3) |
| **21.** (2) | **22.** (1) | **23.** (4) | **24.** (2) |
| **25.** (2) | **26.** (3) | **27.** (2) | **28.** (1) |
| **29.** (2) | **30.** (1) | **31.** (1) | **32.** (1) |
| **33.** (3) | **34.** (4) | **35.** (1) | **36.** (3) |
| **37.** (2) | **38.** (3) | **39.** (4) | **40.** (2) |
| **41.** (2) | **42.** (1) | **43.** (4) | **44.** (2) |
| **45.** (2) | **46.** (2) | **47.** (2) | |