Quant Mega Quiz for SSC CHSL

Q1. A can build a wall in 15 days and B can build it in 10 days, while C can completely demolish the wall in 12 days. If they start working at the same time, in how many days will the work be completed?
(a) 13
(b) 12
(c) 14
(d) 16

Q2. If A can do a work in 10 days and B can do the same work in 15 days, then how many days will they take to complete the work both while working together?
(a) 7
(b) 8
(c) 6
(d) 9

Q3. 'A' completes a work in 12 days. 'B' completes the same work in 15 days. 'A' started working alone and after 3 days B joined him. How many days will they now take together to complete the remaining work?
(a) 9
(b) 8
(c) 6
(d) 5

Q4. Machine A can print one lakh books in 8 hours. Machine B can do the same job in 10 hours. Machine C can do the same job in 12 hours. All the three machines start job at 9.00 am. A break down at 11.00 am and the other two machines finish the job. Approximately at what time will the job be finished?
(a) 12.05 noon
(b) 1.30 pm
(c) 1.05 pm
(d) 11.30 am

Q5. 12 men complete a work in 18 days. Six days after they had started working, 4 men joined them. How many days will all of them take to complete the remaining work?
(a) 10 days
(b) 12 days
(c) 15 days
(d) 9 days

Q6. 5 men can prepare 150 toys in 5 days working 6 hours a day. In how many hours 10 boys can prepare 200 toys in 10 days, if a man works thrice as fast as a boy?
(a) 6
(b) 7
(c) 8
(d) 9

Q7. 12 men and 16 boys can do a piece of work in 5 days. 13 men and 24 boys can do the same work in 4 days. How long will 7 men and 10 boys take to do the same work?
(a) 10
(b) 20
(c) 30
(d) 40

Q8. A and B can do a work in 45 and 40 days respectively. They began the work together, but A left after some time and B finished the remaining work in 23 days. After how many days did A leave?
(a) 9
(b) 10
(c) 11
(d) 12

Q9. Sanjeev can build a wall in 20 days and Parveen can demolish the same wall in 30 days. If they work on alternate days with Sanjeev starting the job on the 1st day, then in how many days will the wall be built for the first time?
(a) 115
(b) 114
(c) 113
(d) 119

Q10. A is 30% more efficient than B. How much time will they, working together, take to complete a job which A along could have done in 23 days?
(a) 11 days
(b) 13 days
(c) 20(3/17) days
(d) None of these

Q11. The jogging track in a sports complex is 726 meters in circumference. Pradeep and his wife starts from the same point and walk in opposite directions at 4.5 km/h and 3.75 km/h, respectively. They will meet for the first time in?
(a) 5.5 min
(b) 6.0 min
(c) 5.28 min
(d) 4.9 min

Q12. A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30km upstream and 21 km downstream in 6 hours and 30 minutes. The speed of the boat in still water is:
(a) 10 km/h
(b) 4 km/h
(c) 14 km/h
(d) 6km/h

Q13. Two trains form Mumbai leave towards Delhi at 6 a.m. and 6:45 am and travel at 100 kmph and 136 kmph respectively. How many kilometers from Mumbai will the two trains be together?
(a) 262.4 km
(b) 260 km
(c) 283.33 km
(d) 275 km

Q14. Two points A and B are located 48 km apart on the riverfront. A motorboat must go from A to B and return to A as soon as possible. The river flows at 6 km/h. What must be the least speed of the motorboat in still water for the trip from A to B and back again to be completed in not more than six hours (assume that the motorboat does not stop at B)?
(a) 18 km/h
(b) 16 km/h
(c) 25 km/h
(d) 46 km/h

Q15. A 200 m-long train passes a 350 m long platform in 5 s. If a man is walking at a speed of 4 m/s along the track and the train is 100 m away from him, how much time will it take to reach the man?
(a) Less than 1 s
(b) 1.04 s
(c) More than 2s
(d) Data insufficient

Q16. A clock gains 15 minutes per day. It is set right at 12 noon. What time will it show at 4.00 am, the next day?
(a) 4 : 10 am
(b) 4 : 45 am
(c) 4 : 20 am
(d) 5 : 00 am

Q17. During a journey of 80 km a train covers first 60km with a speed of 40 km/h and completes the remaining distance with a speed of 20 km/h. What is the average speed of the train during the whole journey?
(a) 30 km/h
(b) 32 km/h
(c) 36 km/h
(d) 40 km/h

Q18. A travel from B to C, a distance of 250 miles, in 5.5 hours. He returns to B in 4 hours 40 minutes. His average speed is

(a) 44
(b) 46
(c) 48
(d) 50

Q19. A race course is 400 meters long. A and B run a race and A wins by 5 meters. B and C run over the same course and B wins by 4 meters. C and D run over it and D wins by 16 meters. If A and D run over it, then who would win and by how much?

(a) A by 8.4 meters
(b) D by 8.4 meters
(c) D by 7.3 meters
(d) A by 7.3 meters

Q20. A man travels 450 km to his home partly by train and partly by car. He takes 8 hrs 40 min if he travels 240 km by train and rest by car. He takes 20 mins more if he travels 180 km by train and the rest by car. The speed of the car in km/hr is

(a) 45
(b) 50
(c) 60
(d) 48

Q21. The interior angle of a regular polygon exceeds its exterior angle by 108°. The number of sides of the polygon is

(a) 12
(b) 10
(c) 16
(d) 14

Q22. A man sells an article at 5% above its cost price. If he had bought it at 5% less than what he had paid for it and sold it at Rs. 2 less, he would have gained 10%. The cost price of the article is

(a) Rs. 100
(b) Rs. 400
(c) Rs. 200
(d) Rs. 300

Q23. The value of cot 41°. cot 42° . cot 43° . cot 44° . cot 45° . cot 46° . cot 47° . cot 48° . cot 49°

(a) $\frac{1}{\sqrt{2}}$
(b) 0
(c) 1
(d) $\frac{\sqrt{3}}{2}$

Q24.P and Q together can do a job in 6 days. Q and R can finish the same job in 60/7 days. P started the work and worked for 3 days. Q and R continued for 6 days. Then the difference of days in which R and P can complete the job is

(a) 8
(b) 15
(c) 10
(d) 12

Q25. The perimeter of a rhombus is 60 cm and one of its diagonal is 24 cm. The area (in sq. cm) of the rhombus is

(a) 206
(b) 108
(c) 432
(d) 216

Q26. A sum of Rs. 7,930 is divided into 3 parts and given on loan at 5% simple interest to A, B and C for 2, 3 and 4 years respectively. If the amounts of all three are equal after their respective periods of loan, then the A received a loan of

(a) Rs. 2,800
(b) Rs. 2,760
(c) Rs. 2,750
(d) Rs. 3,050

Q27. If 60% of A = 30% of B, B = 40% of C and C = x% of A, then value of x is

(a) 200
(b) 500
(c) 300
(d) 800

Q28. 300 grams of sugar solution has 40% of sugar in it. How much sugar should be added to make it 50% in the solution?

(a) 40 gms
(b) 60 gms
(c) 10 gms
(d) 80 gms

Q29. Water tax is increased by 20% but its consumption is decreased by 20%. Then the increase or decrease in the expenditure of the money is

(a) 5% decrease
(b) 4 % increase
(c) 4% decrease
(d) No change

Q30. Three Science classes A, B and C take of Life Science test. The average score of class A is 83. The average score of class B is 76. The average score of class C is 85. The average score of class A and B is 79 and average score of class B and C is 81. Then the average score of classes A, B and C is

(a) 81.5
(b) 81
(c) 80.5
(d) 80