

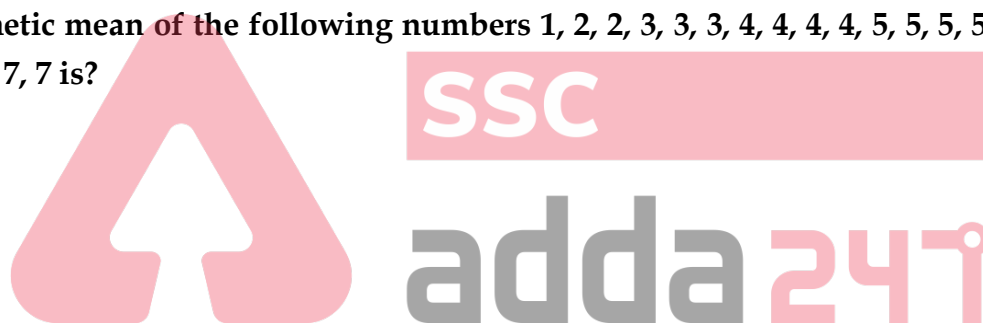
## Quant Mega Quiz for SSC Tier - 1

Q1. The average income of 40 persons is Rs. 4200 and that of another 35 persons is Rs. 4000. The average income of the whole group is?

- (a) Rs. 4100
- (b) Rs.  $4106\frac{1}{3}$
- (c) Rs.  $4106\frac{2}{3}$
- (d) Rs.  $4108\frac{1}{3}$

Q2. The arithmetic mean of the following numbers 1, 2, 2, 3, 3, 3, 4, 4, 4, 4, 5, 5, 5, 5, 5, 6, 6, 6, 6, 6, 6 and 7, 7, 7, 7, 7, 7, 7 is?

- (a) 4
- (b) 5
- (c) 14
- (d) 20




Q3. The average weight of first 11 persons among 12 persons is 95 kg. The weight of 12th person is 33 kg more than the average weight of all the 12 persons. The weight of the 12th person is?

- (a) 128.75 kg
- (b) 128 kg
- (c) 131 kg
- (d) 97.45 kg

Q4. A librarian purchased 50 story- books for his library. But he saw that he could get 14 more books by spending Rs. 76 more and the average price per book would be reduced by Re. 1. The average price (in Rs.) of each book he bought, was?

- (a) 9
- (b) 10
- (c) 15
- (d) 20

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**Q5.** The average of the first 7 integers in a series of 13 consecutive odd integers is 37. What is the average of the entire series?

- (a) 37
- (b) 39
- (c) 41
- (d) 43

**Q6.** Nine students of a class contribute a certain sum of money. Seven of them gave Rs. 50 each and the other two gave respectively Rs. 50 and Rs. 90 more than the others. The average contribution of the class of 9 students is?

- (a) Rs. 50
- (b) Rs. 70
- (c) Rs. 100
- (d) Rs. 120

**Q7.** Average of  $n$  numbers is  $a$ . The first number is increased by 2, second one is increased by 4, the third one is increased by 8 and so on. The average of the new numbers is?

- (a)  $a + \frac{2(2^n - 1)}{n}$
- (b)  $a + \frac{(2^{n+1} - 1)}{n}$
- (c)  $a + \frac{2^n - 1}{n}$
- (d)  $a + \frac{(2^n - 1)}{n}$

**Q8.** Out of four numbers, the average of the first three is 18 and that of the last three is 16. If the last number is 19, the first is?

- (a) 18
- (b) 19
- (c) 20
- (d) 25

**Q9.** A man spends in 8 months as much as he earns in 6 months. He saves Rs. 6000 in a year. His average monthly income is?

- (a) Rs. 2000
- (b) Rs. 1800
- (c) Rs. 2150
- (d) Rs. 2400

**Q10.** Mahendra Singh Dhoni had a certain average of runs for his 64 innings. In his 65th innings, he is bowled out for no score on his part. This brings down his average by 2 runs. His new average of runs is?

- (a) 130
- (b) 132
- (c) 128
- (d) 68

**Q11.** A shopkeeper bought 240 chocolates at Rs. 9 per dozen. If he sold all of them at Re. 1 each, what was his profit percent?

- (a)  $33\frac{1}{3}$
- (b)  $23\frac{1}{3}$
- (c) 33
- (d) 35

**Q12.** How much percent more than the cost price should a shopkeeper mark his goods, so that after allowing a discount of 12.5% he should have a gain of 5% on his outlay?

- (a) 25
- (b) 20
- (c) 10
- (d) 35

**Q13.** A dishonest dealer professes to sell at cost price but uses a 900gram weight instead of 1-kilogram weight. Find the percent profit to the dealer.

- (a) 11.11%
- (b) 14%
- (c) 12.13%
- (d) 15%

**Q14.** A shopkeeper, on selling a pen for Rs. 10, losses  $\frac{1}{11}$  of what it costs him. His cost price is:

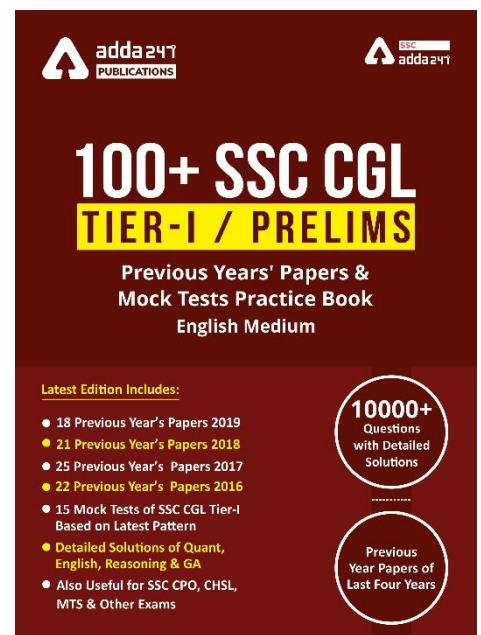
- (a) Rs. 9
- (b) Rs. 10
- (c) Rs. 11
- (d) Rs. 12

**Q15.** Pure ghee costs Rs. 100 per kg. After adulterating it with vegetable oil costing Rs. 50 per kg, a shopkeeper sells the mixture at the rate of Rs. 96 per kg, thereby making a profit of 20%. In what ratio does he mix the two?

- (a) 1: 2
- (b) 3: 2
- (c) 3: 1
- (d) None of these

**Q16.** Toffees are bought at the rate of 3 for a rupee. To gain 50%, they must be sold at:

- (a) 2 for a rupee
- (b) 1 for a rupee
- (c) 4 for a rupee
- (d) 5 for a rupee



**Q17.** An Article is sold at certain price. By selling it at  $\frac{2}{3}$  of that price one loses 10%. The gain percent at original price is:

- (a) 20%
- (b)  $33\frac{1}{3}\%$
- (c) 35%
- (d) 40%

**Q18.** Two boats travelling at 5km/h and 10km/hr, head directly towards each other. They begin at a distance of 20 kms from each other. How far apart are they (in kms) one minute before they collide?

- (a)  $\frac{1}{4}$
- (b)  $\frac{1}{2}$
- (c)  $\frac{3}{4}$
- (d)  $\frac{5}{6}$

**Q19.** The distance between two points P and Q is 115 km. Two persons start at the same time but one travelling from P towards Q and the other travelling from Q towards P. If their respective speeds are 40 kmph and 52 kmph, where do they meet each other?

- (a) 48 km from Q
- (b) 34 km from P
- (c) 36 km from P
- (d) 50 km from P

**Q20.** A train travels at the rate of 50 km/hr without stoppages and it travels at 40 km/hr with stoppages. How many minutes does the train stop on an average per hour?

- (a) 6 min
- (b) 12 min
- (c) 18 min
- (d) 14 min

**Directions (21-25):** Distance travel by five vehicle (in kms) in five days.

Days \ Vehicle	Monday	Tuesday	Wednesday	Thursday	Friday
A	1000	800	700	950	1200
B	740	700	850	550	280
C	740	250	1150	700	660
D	650	100	250	300	500
E	380	120	525	440	900

**Q21.** What is the ratio of speed of the vehicle A to B on Tuesday, if they take equal time to travel on Tuesday.

- (a) 6 : 1
- (b) 8 : 7
- (c) 4 : 3
- (d) 5 : 2

**Q22. What is the average distance travel by the B on Thursday, D on Monday and E on Friday.**

- (a) 650
- (b) 550
- (c) 750
- (d) 700

**Q23. What is the difference between the total distance travel by C all over days to the distance travel by all vehicle on Wednesday.**

- (a) 20 km
- (b) 35 km
- (c) 25 km
- (d) 5 km

**Q24. What is the ratio of distance covered by D from Monday to Wednesday to distance traveller by E from Wednesday to Friday?**

- (a) 401 : 373
- (b) 4 : 5
- (c) 200 : 221
- (d) 200: 373

**Q25. By what percent distance travel by D and E on Friday is more or less to the distance travel by A, B and C on Tuesday**

- (a) 20%
- (b) 25%
- (c) 40%
- (d) 50%

**Directions (26-30): Study the following table and answer the questions accordingly**

Table shows production of mobile phone in different companies in different years (in thousand)

Year	Nokia	Samsung	MI	Moto	Lenovo
2006	69	91	71	15	100
2007	75	88	75	18	120
2008	81	97	79	21	102
2009	98	107	88	25	131
2010	93	110	92	24	143
2011	99	116	97	20	154
2012	105	122	103	25	163

**Q26. Which mobile phone company witnessed heighest growth rate in production from 2006 to 2012?**

- (a) Nokia
- (b) MI
- (c) Lenovo
- (d) Moto

**Q27. Total phones produced by Nokia is what percent of total phones produced by MI over all years? (approximately)**

- (a) 102%
- (b) 95%
- (c) 105%
- (d) 98%

**Q28. What is the ratio of total production of company Nokia to the total production of Company Lenovo in all the years together?**

- (a) 630 : 913
- (b) 620 : 913
- (c) 913 : 630
- (d) 620 : 917

**Q29. What is the ratio of total phones produced in year 2008 to total phones produced in year 2011?**

- (a) 190:243
- (b) 243:190
- (c) 177:220
- (d) 199:240

**Q30. Which mobile phone company witnessed the minimum growth rate in production from 2006 to 2010?**

- (a) Moto
- (b) MI
- (c) Samsung
- (d) Nokia



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