



## Expected Quant Questions for SSC CHSL 2020 PDF

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### Instructions

For the following questions answer them individually

#### Question 1

If  $\frac{\sin \theta}{1+\cos \theta} + \frac{1+\cos \theta}{\sin \theta} = \frac{4}{\sqrt{3}}, 0^\circ < \theta < 90^\circ$ , then the value of  $(\tan \theta + \sec \theta)^{-1}$  is:

- A  $2 - \sqrt{3}$
- B  $3 - \sqrt{2}$
- C  $2 + \sqrt{3}$
- D  $3 + \sqrt{2}$

Answer: A

#### Question 2

P and Q are two points on the ground on either side of a pole. The angles of elevation of the top of the pole as observed from P and Q are  $60^\circ$  and  $30^\circ$ , respectively and the distance between them is  $84\sqrt{3}$  m. What is the height (in m) of the pole?

- A 63
- B 73.5
- C 52.5
- D 60

Answer: A

#### Question 3

A man can row a distance of 900 metres against the stream in 12 minutes and returns to the starting point in 9 minutes. What is the speed (in km/h) of the man in still water?

- A  $4\frac{1}{2}$
- B 6
- C  $5\frac{1}{4}$
- D 5

Answer: C

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#### Question 4

Walking at 60% of his usual speed, a man reaches his destination 1 hour 40 minutes late. His usual time (in hours) to reach the destination is:

- A  $2\frac{1}{2}$
- B  $2\frac{1}{4}$
- C  $3\frac{1}{8}$

D  $\frac{1}{34}$

Answer: A

#### Question 5

25 persons can complete a work in 60 days. They started the work. 10 persons left the work after x days. If the whole work was completed in 80 days, then what is the value of x ?

A 9

B 8

C 12

D 15

Answer: C

#### Question 6

A person covers 40% of the distance from A to B at 8 km/h, 40% of the remaining distance at 9 km/h and the rest at 12 km/h. His average speed (in km/h) for the journey is:

A  $9\frac{5}{8}$

B  $9\frac{2}{3}$

C  $9\frac{3}{8}$

D  $9\frac{1}{3}$

Answer: C

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#### Question 7

A sum is divided among A, B, C and D such that the ratio of the shares of A and B is 2 : 3, that of B and C is 1 : 2 and that of C and D is 3 : 4. If the difference between the shares of A and B is ₹648, then the sum of their shares is:

A ₹2,052

B ₹2,160

C ₹2,484

D ₹1,944

Answer: A

#### Question 8

A, B and C started a business. The investment of A is equal to twice the investment of B and also equal to four times the investment of C. If C's share out of the total profit is ₹4,863, then the share of A in the profit is:

A ₹7,272

B ₹6,484

C ₹9,726

D ₹8,105

Answer: B

**Question 9**

In a 100m race 64 A beats B by 10 mand B beats C by 10 m. By what distance does A beat C (in m)?

A 19

B 18

C 20

D 21

Answer: A

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**Question 10**

If  $x^4 + 2x^3 + ax^2 + bx + 9$  is a perfect square, where a and b are positive real numbers, then the value of a and b are

A a = 5, b = 6

B a = 6, b = 7

C a = 7, b = 6

D a = 7, b = 8

Answer: C

**Question 11**

If the selling price of an article is 32% more than its cost price and the discount offered on its marked price is 12%, then what is the ratio of its cost price to the marked price?

A 4 : 5

B 3 : 8

C 2 : 3

D 1 : 2

Answer: C

**Question 12**

Sudha bought 80 articles at the same price. She sold some of them at 8% profit and the remaining at 12% loss resulting in an overall profit of 6%. The number of items sold at 8% profit is:

A 64

B 60

C 72

D 70

Answer: C

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### Question 13

Two positive numbers differ by 2001, When the larger number is divided by the smaller number, the quotient is 9 and the remainder is 41. The sum of the digits of the larger number is:

A 15

B 11

C 10

D 14

Answer: D

### Question 14

The average of 18 numbers is 37.5. If six numbers of average X are added to them, then the average of all the numbers increases by one, The value of x is:

A 40

B 41.5

C 42

D 38.5

Answer: B

### Explanation:

Sum of the 18 numbers =  $37.5 \times 18 = 675$

( $\because \text{average} = \frac{\text{sum of total terms}}{\text{number of terms}}$ )

Sum of the 6 numbers =  $6 \times X = 6X$

Average of all the numbers =  $37.5 + 1 = 38.5$

$$\frac{675 + 6X}{24} = 38.5$$

$$675 + 6X = 24 \times 38.5$$

$$6X = 924 - 675 = 249$$

$$X = 41.5$$

### Question 15

5 years ago, the ratio of the age of A to that of B was 4 : 5. Five years hence, the ratio of the age of A to that of B will be 6 : 7. If, at present, C is 10 years younger than B, then what will be the ratio of the present age of A to that of C?

A 3 : 2

B 5 : 4

C 4 : 3

D 5 : 3

Answer: B

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