





SSC CHSL Tier-I 2021



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MEMORY BASED QUANTITATIVE APTITUDE QUESTIONS FOR SSC CHSL TIER-I

Q1. If Principal of 2000 amounts to 2662 in 3	
vears. Find SI?	

- 1.660
- 2.772
- 3.662
- 4. None of these

Ans. 3. 662

S.I. = Amount – Principal = 2662-2000 = 662

Q2. Out of 450 apples 30% are rotten then find how many apples are not rotten?

- 1.350
- 2.325
- 3.315
- 4.345

Ans. 3. 315

Apples not rotten = 70% of 450 = 315

Q3. In how many years will the principal of 3000 will yield an SI of 1080 at 12% rate of interest?

- 1. 2 years
- 2. 3 years
- 3.5 years
- 4. None of these

Ans. 2. 3 years

 $1080 = \frac{3000 \times 12 \times T}{100}$

T= 3 years

Q4. A:B = 3:5, B:C = 7:9 then C:A is?

- 1. 21: 45
- 2. 45:21
- 3.40:21
- 4. None of these

Ans. 2. 45:21

A:B = 3:5

B:C = 7:9

Then, C:A = 45:21

Q5. The average of 8 numbers is 30. The average of first 4 numbers is 24 and that of the last 3 numbers is 36. What is the 6th number?

- 1.40
- 2.36
- 3.38

4.28

Sol.2.

According to question,

The average of 8 numbers = 25

∴The total of 8 numbers = $30 \times 8 = 240$

Now, the average of first 4 numbers = 24

∴The total of first 4 numbers = 24×4= 96

and total of last 3 numbers = $3 \times 36 = 108$

 \therefore Required answer = 240 - (96 + 108)

= 240 - 204 = 36

Q6. If 5 Sin A-4 Cos A =0, 0°<A<90°, then the value of (5 Sin A-2 Cos A)/(5 Sin A+3 Cos A)?

 1.5/7
 2.7/2

 3. 2/7
 4.3/5

Sol.3.

(Sin A)/(Cos A)=4/5

 $(5 \sin A-2 \cos A)/(5 \sin A+3 \cos A)=(5*4-$

2*5)/(5*4+3*5)=10/35=2/7

Q7.The value of ((2 Sin A)(1+Sin A))/(1+Sin A + Cos A) is equal to?

1.1-SinA Cos A

2.1+Sin A- Cos A

3.1- Cos A - Sin A

4.1+ sin A + CosA

Sol. 3.

Let A = 0° and Put this in equation

 $(2 \sin A)(1+\sin A)/(1+\sin A+\cos A) = 0$

1+Sin A- Cos A = 0

So, option 3rd is the answer

Q8. P and Q can do a job together in 16 days. P is 3 times as efficient as Q. In how many days can P alone complete the work?

- 1.18days
- 2. 64/3 days
- 3.20 days
- 4.25 days

Sol. Let Q does 1 unit/day.

Then, as P is thrice as efficient as Q, P will do 3 unit/day.

(P+Q) one day work = 3+1 = 4 units/day

Total work = $4 \times 16 = 64$ units



P alone will do work in = 64/3 = 16 days

Q9. A does 70% of work in 14 days. He then calls in B and they together finish the remaining work in 5 days. How long B alone would take to do whole work?

1.120 days

2.140 days

3.80 days

4.20 days

Sol. A does 70% work in 14 days

So one day efficiency of A = 5%

A and B together complete the remaining 30% work in 5 days

So one day efficiency of A and B = 6%

So one day efficiency of B = 6%-5% = 1%

Hence B complete the 100% work in 100 days.

Q10. If 40% of a number is 100, then find 25% of that number:

1.32.5

2.62.5

3.12.5

4.14.28

Sol.2.

Let the number be x.

Therefore, according to the question

2/5 x=100

X = 250

25% of 250 = 250/4=62.5

Q11. If the ratio of cost price and selling price be 10:11, then the profit percentage is

1.1%

2.10%

3.5%

4.8%

Ans. 2. 10%

Given ratio,

$$\frac{CP}{SP} = \frac{10}{11}$$

Let CP = 10/- and SP = 11/-

∴ Profit = 1/-

$$\therefore \text{ Profit \% = Profit} \times 100\% = \frac{Profit}{CP} \times 100$$

$$=\frac{1}{10}\times 100 = 10\%$$

Q12. A Woman buys a toy for Rs 25 and sells it for Rs 30. Find her gain percent.

1.5%

3.13%

4.20%

Ans.

Cost Price (CP) = 25 Selling Price (SP) = 30

Gain (Profit) = SP - CP \Rightarrow 30 - 25 = 5.

Profit in %:

% Gain =
$$\frac{\text{Gain}}{\text{CP}} \times 100 \Rightarrow \frac{5}{25} \times 100 = 20\%$$
.

Hence, option D is correct.

Q13. Two right circular cylinders of equal volume have their heights in the ratio 1:2.

The ratio of their radii is:

1. 2:1

2. 1:2

3.1:4

4. None of these

Ans. 4. None of these

$$V_1:V_2=1:1$$

$$\pi r_1^2 h_1 : \pi r_2^2 h_2 = 1 : 1$$

$$\frac{r_1^2}{r_2^2} \times \frac{1}{2} = \frac{1}{1}$$

$$r_1: r_2 = \sqrt{2}: 1$$

Q14. If diagonal of a cube is cm, then its volume in cubic cm is:

1.8

2. 12

3.24

√2

Diagonal =
$$\sqrt{3a^2}$$
, $\sqrt{3}a = 2\sqrt{3}$, $a = 2$

Volume =
$$a^3 = 8$$

Q15. The lateral surface area of a cylinder is 1056 and its height is 16 cm. Find its volume.

(a) 4545 cm³

(b) 4455 cm³

(c) 5445 cm³

(d) 5544 cm³

Ans. (d) 5544 cm³



Let Radius = r cm, h = 16 cm

$$2\pi rh = 1056$$

$$2 \times \frac{22}{7} \times r \times 16 = 1056$$

$$r = \frac{21}{2} \text{cm}$$

Volume =
$$\pi r^2 h = \frac{22}{7} \times \frac{21}{2} \times \frac{21}{2} \times 16 = 5544 \text{ cm}^3$$