

Section : **Quantitative Aptitude**

Q.1 If $\left(2x - \frac{3}{x}\right) = 2$, then what is the value of $\left(16x^4 + \frac{81}{x^4}\right)$?

- Ans**
- 1. 220
 - 2. 180
 - 3. 328
 - 4. 184

Question ID : **81616112769**
Status : **Answered**
Chosen Option : **4**

Q.2 Table shows the number of trees planted in 4 cities from 2016 to 2020.

Years	Chandigarh	Ahmadabad	Pune	Kolkata
2016	1800	2500	1800	2000
2017	2500	2300	1850	1800
2018	2300	2400	1840	1760
2019	2440	1950	1900	1600
2020	2250	2100	2000	1750

From 2016 to 2020, how many more trees were planted in Ahmedabad as compared to trees planted in Pune?

- Ans**
- 1. 2340
 - 2. 2000
 - 3. 1850
 - 4. 1860

Question ID : **81616112476**
Status : **Answered**
Chosen Option : **4**

Get SSC CGL TIER-1 Study Note at : <https://sscportal.in/notes>

Q.3 Table shows income (in ₹) received by 4 employees of a company during the month of December 2020 and all their income sources.

Source	Amit	Suresh	Nitin	Varun
Salary	35000	38500	29000	42000
Arrears	6000	6300	5000	7500
Bonus	1000	1100	1000	1240
Overtime	1800	1950	1400	1500

By what percent are the Arrears of Amit and Suresh taken together less than the Arrears of Nitin and Varun taken together?

- Ans**
- 1. 1.6
 - 2. 1.2
 - 3. 1.4
 - 4. 1.5

Question ID : **81616112478**
 Status : **Answered**
 Chosen Option : **1**

Q.4 Study the following table and answer the question:

Number of students enrolled for Vocational Courses (VC) in five institutes - A, B, C, D & E.

Year \ Institute	2013	2014	2015	2016	2017	2018
A	120	135	130	135	128	140
B	125	132	138	132	135	142
C	125	120	125	138	140	135
D	100	125	122	140	128	138
E	105	110	115	147	130	145

The ratio of the total number of students enrolled for VC in institutes A, C and E in 2016 to the total number of students enrolled in institutes B and D in 2018, is

- Ans**
- 1. 14 : 9
 - 2. 8 : 7
 - 3. 3 : 2
 - 4. 21 : 19

Question ID : **81616114091**
 Status : **Answered**
 Chosen Option : **3**

Q.5 $x + y + z = 2$ and $xy + yz + zx = -11$, then the value of $x^3 + y^3 + z^3 - 3xyz$ is :

- Ans**
- 1. 74
 - 2. 78
 - 3. 69
 - 4. 71

Question ID : **81616113780**
 Status : **Answered**
 Chosen Option : **1**



Download SSC CGL, CHSL E-BOOKS

CLICK HERE

Get SSC CGL TIER-1 Study Note at : <https://sscportal.in/notes>

Q.6 Ratio of the present age of a mother to that of the daughter is 7 : 1. After 5 years the ratio will become 4 : 1. What is the difference (in years) in their present ages?

- Ans**
- 1. 28
 - 2. 31
 - 3. 30
 - 4. 29

Question ID : 81616112763
Status : Answered
Chosen Option : 3

Q.7 On selling an article for ₹246.80, the gain is 20% more than the amount of loss incurred on selling it for ₹216. If the article is sold for ₹220.75, then what is the gain/loss percent (correct to nearest integer)?

- Ans**
- 1. Profit 7%
 - 2. Loss 4%
 - 3. Profit 3%
 - 4. Loss 5%

Question ID : 81616113267
Status : Answered
Chosen Option : 4

Q.8 In $\triangle ABC$, $\angle A = 90^\circ$, $AD \perp BC$ at D. If $AB = 12$ cm and $AC = 16$ cm, then what is the length (in cm) of BD ?

- Ans**
- 1. 8.4
 - 2. 6.4
 - 3. 7.8
 - 4. 7.2

Question ID : 81616114289
Status : Answered
Chosen Option : 4

Q.9 A can do a certain work in 15 days. B is 25% more efficient than A. Both worked together for 4 days. C alone completed the remaining work in 8 days. A, B and C together will complete the same work in ?

- Ans**
- 1. $4\frac{1}{2}$ days
 - 2. $6\frac{1}{2}$ days
 - 3. 5 days
 - 4. 4 days

Question ID : 81616113775
Status : Answered
Chosen Option : 3



Download SSC CGL, CHSL E-BOOKS

[CLICK HERE](#)

Get SSC CGL TIER-1 Study Note at : <https://sscportal.in/notes>

Q.10 A sum of ₹7500 amounts to ₹9075 at 10% p.a. interest being compounded yearly in a certain time. The simple interest (in ₹) on the same sum for the same time and the same rate is :

- Ans
- 1. 1480
 - 2. 1500
 - 3. 1530
 - 4. 1520

Question ID : 81616113774
Status : Answered
Chosen Option : 2

Q.11 Angle between the internal bisectors of two angles $\angle B$ and $\angle C$ of a $\triangle ABC$ is 132° , then the value of $\angle A$ is :

- Ans
- 1. 62°
 - 2. 84°
 - 3. 72°
 - 4. 48°

Question ID : 81616113278
Status : Answered
Chosen Option : 2

Q.12 The selling price of an article marked for ₹10000 after giving three discounts, 20%, 10% and $k\%$ is ₹6120. What will be selling price (in ₹) of the same article if a single discount of $(k + 20)\%$ is allowed?

- Ans
- 1. 8500
 - 2. 6800
 - 3. 8000
 - 4. 6500

Question ID : 81616112760
Status : Answered
Chosen Option : 4

Q.13 $1 + 2 \tan^2 \theta + 2 \sin \theta \sec^2 \theta, 0^\circ < \theta < 90^\circ$, is equal to :

- Ans
- 1. $\frac{1 + \sin \theta}{1 - \sin \theta}$
 - 2. $\frac{1 + \cos \theta}{1 - \cos \theta}$
 - 3. $\frac{1 - \sin \theta}{1 + \sin \theta}$
 - 4. $\frac{1 - \cos \theta}{1 + \cos \theta}$

Question ID : 81616113787
Status : Answered
Chosen Option : 1



Download SSC CGL, CHSL E-BOOKS

[CLICK HERE](#)

Get SSC CGL TIER-1 Study Note at : <https://sscportal.in/notes>

Q.14 In a circle with center O and radius 5 cm , AB and CD are two parallel chords of lengths 6 cm and $x\text{ cm}$, respectively and the chords are on the opposite side of the centre O . The distance between the chords is 7 cm . What is the value of x ?

- Ans**
- 1. 8
 - 2. 9
 - 3. 10
 - 4. 12

Question ID : **81616113782**
 Status : **Answered**
 Chosen Option : 1

Q.15 In a circle with center O , AB is a diameter and CD is a chord such that $\angle ABC = 34^\circ$ and $CD = BD$. What is the measure of $\angle DBC$?

- Ans**
- 1. 30°
 - 2. 28°
 - 3. 32°
 - 4. 24°

Question ID : **81616114286**
 Status : **Answered**
 Chosen Option : 2

Q.16 The average of 22 numbers is 37.5. The average of first 12 numbers is 40.6 and that of the last 12 numbers is 35.4. If 11th and 12th numbers are excluded, then what is the average of the remaining numbers?

- Ans**
- 1. 36.9
 - 2. 37.4
 - 3. 37.8
 - 4. 36.4

Question ID : **81616114274**
 Status : **Answered**
 Chosen Option : 1

Q.17 If $\frac{\cos \sec \theta + \cot \theta}{\cos \sec \theta - \cot \theta} = 7$, then the value of $\frac{4 \sin^2 \theta - 1}{4 \sin^2 \theta + 5}$ is:

- Ans**
- 1. $-\frac{1}{9}$
 - 2. $\frac{1}{3}$
 - 3. $\frac{1}{9}$
 - 4. $-\frac{1}{3}$

Question ID : **81616113281**
 Status : **Answered**
 Chosen Option : 3



Download SSC CGL, CHSL E-BOOKS

CLICK HERE

Get SSC CGL TIER-1 Study Note at : <https://sscportal.in/notes>

Q.18 If the 6-digit number $5x423y$ is divisible by 88, then what is the value of $(5x - 8y)$?

- Ans**
- 1. 24
 - 2. 16
 - 3. 14
 - 4. 28

Question ID : 81616113767
 Status : Answered
 Chosen Option : 1

Q.19 A train runs first 75 km at a certain uniform speed and next 90 km at an average speed of 10 km/h more than the normal speed. If it takes 3 hours to complete the journey, then how much time will the train take to cover 300 km with normal speed?

- Ans**
- 1. 5 hours 25 minutes
 - 2. 6 hours
 - 3. 5 hours
 - 4. 5 hours 15 minutes

Question ID : 81616112766
 Status : Answered
 Chosen Option : 2

Q.20 The value of $\frac{52-1170 \div 26+13 \times 2}{2+1\frac{1}{8} \text{ of } 2-1\frac{1}{4}}$ is:

- Ans**
- 1. 12
 - 2. 11
 - 3. 27
 - 4. 41

Question ID : 81616113263
 Status : Answered
 Chosen Option : 2

Q.21 If $3 \cos^2 \theta - 4 \sin \theta + 1 = 0, 0^\circ < \theta < 90^\circ$, then $\tan \theta + \sec \theta = ?$

- Ans**
- 1. $2\sqrt{3}$
 - 2. $2\sqrt{5}$
 - 3. $3\sqrt{3}$
 - 4. $\sqrt{5}$

Question ID : 81616113785
 Status : Answered
 Chosen Option : 4



Download SSC CGL, CHSL E-BOOKS

[CLICK HERE](#)

Get SSC CGL TIER-1 Study Note at : <https://sscportal.in/notes>

Q.22 The income of A is 30% less than the income of B and the income of B is 137.5% more than that of C. If the income of A is ₹28500 less than that of B, then the income (in ₹) of C is :

- Ans**
- 1. 36000
 - 2. 50000
 - 3. 40000
 - 4. 48000

Question ID : **81616113771**
 Status : **Answered**
 Chosen Option : **3**

Q.23 Study the following table and answer the question:

Number of students enrolled for Vocational Courses (VC) in five institutes - A, B, C, D & E.

Year Institute	2013	2014	2015	2016	2017	2018
A	120	135	130	135	128	140
B	125	132	138	132	135	142
C	125	120	125	138	140	135
D	100	125	122	140	128	138
E	105	110	115	147	130	145

The total number of students enrolled for VC in institute C in 2013, 2014 and 2017 is what percent of the total number of students enrolled in all the five institutes in 2018?

- Ans**
- 1. 62
 - 2. 53
 - 3. 58
 - 4. 55

Question ID : **81616114093**
 Status : **Answered**
 Chosen Option : **4**

Q.24 If $a^3 + b^3 = 405$ and $a + b = 9$, then the value of ab is

- Ans**
- 1. 10
 - 2. 15
 - 3. 12
 - 4. 8

Question ID : **81616113273**
 Status : **Answered**
 Chosen Option : **3**

Get SSC CGL TIER-1 Study Note at : <https://sscportal.in/notes>

Q.25 What is the area (in cm^2) of a circle inscribed in a square of area 784 cm^2 ? (Take $\pi = \frac{22}{7}$)

- Ans**
- 1. 660
 - 2. 924
 - 3. 462
 - 4. 616

Question ID : **81616114282**
Status : **Answered**
Chosen Option : **4**



Download SSC CGL, CHSL E-BOOKS

[CLICK HERE](#)