

SSC CHSL Tier I Exam Analysis

19 March 2020

Questions Asked in All Shifts



Quantitative Aptitude Section:

- What is the difference between compound interest calculated yearly and half-yearly on a sum of 8000 at 10% per annum for 1 year?
- What is the formula of the volume of the right circular cone?
- In what time does a sum of money become its 5 times at a simple interest rate of 16%?
- The Hypotenuse and base of a right-angled triangle is 10 cm and 8 cm. What is the perpendicular of the triangle?
- If $(\sin x + \cos x)/(\sin x - \cos x) = 6/5$ then Find $(\tan^2 x + 1)/(\tan^2 x - 1)$.
- In a Triangle ABC, angle A = 60 degree and Exterior angle at C is twice the angle B. Determine the type of triangle.
- Two tangents are drawn on a circle from an external point P. Then what is the relation between two tangents to the circle.
- An article is marked at Rs.900 and two successive discounts of 10% each are offered on the article. Find the S.P. of the article.
- If the average age of 65 men is 32 years and if 5 more men are added then the new average age becomes 36 years. Find the average age of the 5 men.
- If A, B, and C can complete 10, 12 and 15 days. Then in how many days they complete the whole working together.
- If $a = 2b$ then find $(a + b)/(a - b) = ?$
- If $x:y = 3:2$ and $x + y = 90$ then find the value of $(x - y)$.
- From an external point, A two tangents AB and AC to the circle are drawn. If the

radius of the circle is 6 cm and $AO = 10$ cm then find the Area of ABOC.

- Mohan sells an article to Ram at 10% profit and Ram further sells it to Shyam at 20% profit. If Shyam pays Rs.1320 to Ram. Then find the cost price for Mohan.
- The Marked price of an article is Rs. 150. What is the selling price of the article after two successive discounts of 30% and 40%?
- A person covers a distance of 150 km in 5 hrs. If the speed is reduced to its $\frac{1}{3}$ rd then how much time will he take more to cover the same distance?
- Sunil and Anil can do a certain work in 8 days and 14 days respectively. The total wages of the two is Rs 4400 per day. What is the per day wages of Sunil?
- $\sin = 2x$, $\cos = 2/x$, then $4(x^2 + 1/x^2) = ?$
- Salary of Raman is Rs. 1000 per day, after some days the salary is increased to Rs 1160 per day. What is the percentage change in salary?
- $x^4 + 1/x^4 = 14159$, then $x + 1/x = ?$
- The average of 40 numbers is 36. If the average of the first 25 numbers is 19 and average of next 14 numbers is 41 then find the last number.
- If $2\cot = 3$ then find $(\sqrt{13}\sin - 2\tan)/(2\tan + \sqrt{13}\sin)$
- Two equal circles having the same radius 4 cm each have a distance of 17 cm between their respective centres. Find the length of their transverse common tangent.
- Two circles, touching each other externally, with radii 20 cm and 5 cm. Find the length of their direct common tangent.
- If $(a - b) = 18$, $(a^3 - b^3) = 325$ then find ab ?



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• A man sold his bike at Rs.25000 at 25% profit, what was the S.P. if had to bear a loss of 15%.

• $A = \text{Root}\left\{\frac{\text{Cosec } x - 1}{\text{cosec } x + 1}\right\}$
than find $[A - 1/A]$

• A and B can do a certain work in 9 days and 6 days respectively. In how many days they together complete the work?

• $a = (1+x)/(1-x)$, then $a - 1/a = ?$

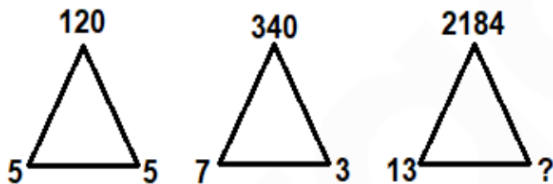
• AB is a chord of a circle with length 12 cm. Perpendicular is drawn from the centre O on the chord. Length of the perpendicular is 8 cm, what is the radius of the circle?

General Intelligence & Reasoning section:

• Mirror image: If a mirror is placed to the left of the question figure then which of the answer figures is the correct image of the given figure?

Ans figure.

• Missing Number series:



Logic- $5^3 - 5 = 125 - 5 = 120$

And,

$7^3 - 3 = 343 - 3 = 340$

Similarly,

$13^3 - ? = 2197 - 13 = 2184$

Ans. 13

• Odd one out:

196

226

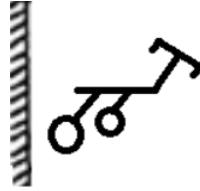
257

290

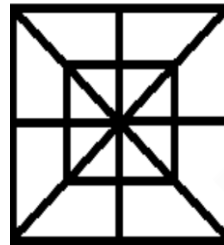
Ans. 196

Logic: only 196 is a perfect square.

• Mirror Image



• Count the number of triangles in the given figure:



Ans. 32

• Relation analogy:
Boxing is related to "Ring" in the same way Racing is related to?

Ans. Track

• Fillers:

M_OP_N_PMN_PM_OP

Ans. NMOON

(logic: Series of MNOP)

• Embedded figure -



Question figure:

• Analogy number:

12167:2197:: 4913 : ?

Ans. 343

Logic: $23^3 : 13^3$ similarly $17^3 : 7^3$

• Paper-cutting and folding :

Question

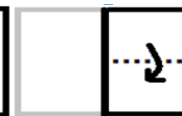
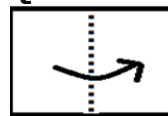


figure:



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- **Series:**

G15H, J21K, M27N,?

Ans. P33Q

Logic: (H+2-> J, K+2-> M, N+2->P
...and digit is the addition of the place value of both alphabets)

- **Arrange the following in a Logical order:** Accident, Treatment, Hospital, Injury, Ambulance

Ans. The order will be - 1,4,5,3,2.

- **Analogy word - Gloves : Hand :: Shoes : ?.**

Ans. Feet

- **Logical Venn Diagram - Male, Father, Infant**



Ans.

- **Analogy word - Diabetes : Disease :: Summer : ?**

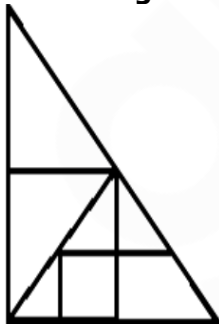
Ans. Season

- **Number series - 55, 43, 59, 40, 63, 37, ?**

Logic - (+4, -3.....)

Ans. 67

- **Counting of triangles:**



Ans. 11

- **Related number analogy:**

3 : 67 :: 6 : ?

Logic- $4^3 + 3 = 67$

Similarly,

$7^3 + 6 = 349$

Ans. 349

- **Analogy word:**

Examination : Admit card :: Train : ?

Ans. Ticket.

- **Find the Odd one out-** Time, Hour, Minute, Second

Ans. Time

- **Number series: 19,20,24,51,67,?**

Ans. 192.

- **Fillers series - u _ dm u _ dm u p _ _ u p _ m**

Pattern is - updm/ updm/ updm/ updm

Logic difference of cube and square alternate

- **Related analogy- 27:6 :: 8 : 4 :: 64 : ?**

Ans. 8

- **Logical order arrangement-** Competition, Prize, Marks, Participate, Winner.

Ans. the correct order is - 1,4,3,2,5

- **Analogy word- Painting : Color :: Homework : ?**

Ans. Ink

General Awareness Section:

- Who was the first Chief Election Commissioner of India? - Sukumar Sen (1950-1958)

- In which year Allahabad treaty was signed?- 1765, between Mughal Emperor Shah Alam II and Robert Clive as a result of the Battle of Buxar.

- What is invented in the 3rd generation computer? - ICs - Integrated Circuits



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- What is Chemical formula of butane? - C_4H_{10}
- How many types of seismic waves are there?- Two types- 'Body wave' and 'surface wave'.
- Where is the Largest hockey stadium in the world situated? National Hockey Stadium - (Lahore, Pakistan) also known as Gaddafi Hockey Stadium
- Which one of the following is the Vascular system in plants? Xylem tissue transports water and dissolved minerals to the leaves and phloem tissue conducts food from the leaves to all parts of the plant.
- What is the radius of the moon? - 1,737.1 km
- When was the First Winter Olympics held? - 1924 (France)
- Who among the following is related to chess? - Ding Liren (China) - Was the correct option
- Which of the following sports is played on the green court? - Tennis
- Which of the following acids is present in tomatoes? Oxalic acid
- GST comes under which amendment bill? - 101st Amendment Act or 122nd Amendment bill
- NABARD was established in which year? -1982
- Who won the Sahitya Akademi award 2019 for Hindi? -Nand Kishore Acharya (Chheelte hue Khud Ko - Poem Name)
- Dudhsagar fall is located in which of the following States? Goa (Mandovi River)
- Vivekanand rock memorial is situated in _____. - Kanyakumari (TN)
- When was Rover cup started? 1891 (Football Tournament of India - Started by Britishers)
- Jitu rai is associated with which sports? - Shooting
- Lavani dance is associated with which of the following states? Maharashtra
- The total number of Lok Sabha seats in Rajasthan? -25
- Who was the runner-up of the CWC 2019? -New Zealand
- What is the name of the Brahmaputra river in Tibet? -Yarlung Tsangpo
- How many people received Padma Vibhushan in 2019? -4 (Ms. Teejan Bai, Shri Ismail Omar Guelleh (Foreigner), Shri Anilkumar Manibhai Naik, Shri Balwant Moreshwar Purandare)
- Konark Sun Temple is situated in which of the following states of India? Odisha (Built by Raja Narsinghdev 1 - Ganga Dynasty)
- Salsette Island is situated in which of the following states of India? Maharashtra (Mumbai is situated on this Island)
- Who was the 13th president of India? Pranab Mukherjee
- What was the theme of International Yoga Day 2019? Climate action
- In which year the 44th Amendment Act of the Indian constitution was passed? - 1978
- When was Eden Garden stadium built? - 1864
- Dachigam national park is situated in which state? -Jammu & Kashmir (Union territory)



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- What is the relative density of Silver? 10.8
- What is the height of Tehri Dam? -260 m
- How many Indian states share a border with Bhutan? Four, Arunachal Pradesh, Assam, West Bengal & Sikkim
- Magnus Carlsen is related to which sports? Chess
- Which state topped the sustainable development index? Kerala
- SAARC was established in which year ? 8th December 1985
- Proteins are made of how many amino acids?
- Treaty of Amritsar signed between____. East India Company and Maharaja Ranjit Singh (1809)
- Who got Rajeev Gandhi KHEL Ratan AWARD in 2019- Deepa Malik and Bajrang Punia
- Who is the current chief of the Army Staff? General Manoj Mukund Narvane
- What is the full form of VPA? Virtual Payment Address
- Who was the President of India at the time of the Emergency ?- President Fakhruddin Ali Ahmed

English Language & Comprehension Section :

- Synonym - adjustment (ans. Adaptation, accustoming)
- One word Substitution- Geology
- Antonym - unmanaged (ans. Manageable)

- Synonym - Comfortable (ans. Cosy, pleasant, agreeable)
- Antonym - Plausible (ans. Unlikely, improbable)
- Incorrect Spelling- Navigation
- Incorrect spelling- Simultaneous
- Idiom. Cut from the same cloth (ans. very similar in their character, attitudes, or behaviour.)
- Idiom. Every cloud has a silver lining (ans. every difficult or sad situation has a comforting or more hopeful aspect, even though this may not be immediately apparent.)
- One word substitution. Prayer sung in the praise of god - hymn
- Cloze test on Delhi air quality
- Synonym- Casual (ans. informal)
- Cloze Test was based on Forest Fire.
- Syn for Tarnish (ans. Defile, maculate, stain)
- Syn for Tame (ans. Chaste, domesticate)
- Idiom-Falling head over heels (ans. to fall deeply in love with someone, especially suddenly)
- Incorrectly Spelt - Accommodate
- Correctly Spelt - Scrutinizing
- One word substitution- Contemporary (ans. living or occurring at the same time.)
- Antonym for Dispute (ans. agreement)
- Narration. She said to her, "why has she done that?".Ans. = She asked her why she had done this.



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- Idiom. Reinventing the wheel (Ans. to waste one's time working on creating something that has already been created by someone else, or trying to solve a problem that has already been solved by someone else.)
- Antonym for Unworthy
- Idiom- **In a fog**

- Idiom- **Fish and fowl**
- Incorrect spelt- Manipulate
- One word substitution - Hibernation
- Synonym- Penury
- Cloze Test was based on Art and Culture
- One word substitution- Somnambulism



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