



SSC CHSL 2022-23



MATHS

अंतिम बार

#12

महा MOCK TEST 
TARGET 50/50
(अबकी बार **CHSL** पार)



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BY SUNIL MAHENDRAS



UPCOMING ONLINE BATCHES

February 2023

08 FEB 2023

03:00 PM to 05:00 PM

SSC ONLINE LIVE CLASS

BILINGUAL

15 FEB 2023

10:30 AM to 12:30 PM

BANK ONLINE LIVE CLASS

BILINGUAL

15 FEB 2023

06:30 PM to 08:30 PM

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English & Bengali



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File No. HQ-C-II01/5/2023-C2-Part(1)

Staff Selection Commission

Important Notice

The Tier-II of the Combined Graduate Level Examination, 2022 has been scheduled to be held from 02.03.2023 to 07.03.2023. In continuation to the Important Notice No. HQ-PPI03/11/2022-PP_1 dated 17.02.2023, the candidates of the said examination are informed that the timings of the examination will be as below:

Exam dates	Paper	Shift	Exam Timing	Duration
2 nd , 3 rd , 6 th & 7 th March, 2023	Paper-I (Section-I, II and Module-I of Section-III)	Shift-I	09:00AM to 11:15AM 09:00AM to 12:00 Noon	2 hours 15 minutes (1 hour for each section and 15 minutes for Module-I of Section-III) 3 hours for the candidates eligible for scribe as per Para 7.1 and 7.2 as per notice of examination (1 hour and 20 minutes for each section and 20 minutes for Module-I of Section- III)
	Paper-I (Module II of Section-III)	Shift-II	02:00PM to 02:40PM	40 minutes (Including mock, break, typing self- verification)
4 th March, 2023	Paper-II	Shift-I	09:00AM to 11:00AM	2 hours (for each Paper)
	Paper-III	Shift-II	02:00PM to 04:00PM	(2 hours and 40 minutes for the candidates eligible for scribe as per Para 7.1 and 7.2 as per notice of examination)

2. There will be sectional timing for each Section of Paper-I. After completion of the allotted time, the candidates will be automatically switched to the next Section. Thereafter, the candidates will not have access to the previously attempted Section.
3. The candidates are advised to visit the website of the Commission at regular intervals for further updates.

Under Secretary (C-II)
24.02.2023



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SSC CHSL Tier-I :-Pattern

Sections/Subjects	Number of Questions each section	Maximum Marks	Time Duration
General Awareness	25	50	60 minutes
Reasoning/General Intelligence	25	50	
English Language (Basic Knowledge)	25	50	
Quantitative Aptitude (Basic Arithmetic Skill)	25	50	
Total	100	200	




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SSC CHSL Tier-II : Pattern


Tier	Session	Subject	Number of Questions	Maximum Marks	Time allowed
II	Session-I (2 hours and 15 minutes)	Section-I: Module-I: Mathematical Abilities Module-II: Reasoning and General Intelligence.	30 30 Total = 60	60*3 = 180	1 hour (for each section)
		Section-II: Module-I: English Language and Comprehension Module-II: General Awareness	40 20 Total = 60	60*3 = 180	(1 hours and 20 minutes for the candidates eligible for scribe as per Para-8.1 and 8.2)
		Section-III: Module-I: Computer Knowledge Module	15	15*3 = 45	15 Minutes (20 minutes for the candidates eligible for scribe as per Para-8.1 and 8.2)
	Session-II	Section-III: Module-II: Skill Test/ Typing Test Module	Part A: Skill Test for DEOs. Part B: Typing Test for LDC/ JSA.	- -	15 Minutes (20 minutes for the candidates eligible for scribe as per Para-8.1 and 8.2) 10 Minutes (15 minutes for the candidates eligible for scribe as per Para-8.1 and 8.2)


 [@mohit..9476](#) 16 hours ago
Thank-you Sir for this Amazing Class Session.. 🙌
And
My Answer for today's Homework is-
Option D ==14....
Read more
👍 🗨 Reply
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 [@rahulkr8303](#) 4 hours ago
Thank you so much sir 🙌
Hw ans--14
👍 🗨 ❤ Reply


 [@vishnugupta8322](#) 15 hours ago
D-14 is the right ans
Very nice session sir thank you 🙌 sir ❤
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If $\tan\theta + \cot\theta = 4$, then find the value of $\tan^2\theta + \cot^2\theta$.

यदि $\tan\theta + \cot\theta = 4$ है, तो $\tan^2\theta + \cot^2\theta$ का मान ज्ञात कीजिए।

$\tan\theta + \cot\theta = 4$ Squaring both.

$\tan^2\theta + \cot^2\theta + 2\tan\theta\cot\theta = 16$

$\tan^2\theta + \cot^2\theta = 14$



- a) 10
- b) 12
- c) 16
- d) 14**



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If $8x^3 + 27y^3 + 64z^3 = 72xyz$, then the relation between x, y and z can be:

यदि $8x^3 + 27y^3 + 64z^3 = 72xyz$ है, तो x, y और z के बीच सही संबंध ज्ञात कीजिए:

We know that

$$a + b + c = 0$$

$$a^3 + b^3 + c^3 - 3abc = 0$$

$$(2x)^3 + (3y)^3 + (4z)^3 - 3 \cdot 2x \cdot 3y \cdot 4z = 0$$

$$2x + 3y + 4z = 0$$

a) $2x + 3y = -4z$

b) $2x + y + z = 0$

c) $2x - 3y + 4z = 0$

d) $2x + 3y = 4z$





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Rahul bought 20 dozen toys at a cost of ₹375 each dozen. He sold each of them for ₹33. The profit percentage is:

राहुल ने 375 रुपये प्रति दर्जन के क्रय मूल्य पर 20 दर्जन खिलौने खरीदे। उसने प्रत्येक खिलौने को 33 रुपये के विक्रय मूल्य पर बेच दिया। लाभ प्रतिशत कितना है?

$$\text{Total toys} = 20 \times 12 = 240$$

$$\begin{aligned} \text{Cost Price} &= 375 \times 20 \\ &= 7500 \text{ ₹} \end{aligned}$$

$$\begin{array}{r} 420 \times 100 \\ \hline 7500 \\ \hline = 56\% \end{array}$$

$$\begin{array}{r} \text{SP} = 240 \times 33 \\ \hline 7920 \end{array}$$

$$\text{Profit} = 7920 - 7500$$

a) 5.6

b) 6

c) 4.7

d) 5



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The value of a machine depreciates every year by 10%. If its present value is ₹35,000, then the value of the machine after 2 years will be:

एक मशीन के मूल्य में प्रतिवर्ष 10% का हास होता है। यदि इसका वर्तमान मूल्य ₹35,000 है, तो 2 वर्ष बाद मशीन का मूल्य कितना होगा?

$$\begin{aligned} \text{After 2 year} &= 35000 \times \frac{90}{100} \times \frac{90}{100} \\ &= \frac{35 \times 9 \times 90}{100} \end{aligned}$$



- a) ₹28,350 ✓
- b) ₹27,225 ✗
- c) ₹28,000 ✗
- d) ₹27,750 ✗



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The mean of five numbers is 18. If one number is excluded, their mean is 16.

The excluded number is:

पाँच संख्याओं का माध्य 18 है। यदि एक संख्या को हटा दिया जाए, तो उनका माध्य 16 हो जाता है। निकाली गई संख्या है:

$$18 \times 5 = 90$$
$$16 \times 4 = 64$$
$$90 - 64 = 26$$



- a) 30
- b) 26
- c) 36
- d) 32



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After seeing a policeman from a distance of 500 m, a thief starts running at a speed of 10 km/h. After noticing, the policeman chases immediately with a speed of 12 km/h, and the thief is caught. The distance run by the policeman is:

500 मीटर की दूरी से एक पुलिसकर्मी को देखकर एक चोर 10 किमी/घंटा की गति से दौड़ना शुरू करता है। यह देखने के बाद पुलिसकर्मी तुरंत 12 किमी/घंटा की गति से पीछा करता है और चोर को पकड़ लिया जाता है। पुलिसकर्मी द्वारा तय की गई दूरी है:


So Time = $\frac{500 \times 18}{2 \times 5}$

Dis = $\frac{12 \times 5}{18} \times 900$

= 3000 m

1 km = 1000 m

\Rightarrow = 3 km



- a) 2.4 km
- b) 3 km
- c) 2.5 km
- d) 3.6 km



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A varies jointly with B and C. A = 6 when B = 3 and C = 2. Find A when B = 5 and C = 7.

A, B और C के साथ संयुक्त भिन्नता है। A = 6, जब B = 3 और C = 2 है। B = 5 और C = 7 होने पर A ज्ञात कीजिए।

Handwritten solution:

$$A \propto BC$$

$$A = kBC$$

$$6 = k \cdot 3 \cdot 2$$

$$k = 1$$

5 x 7



- a) 17.5
- b) 35**
- c) 105
- d) 70



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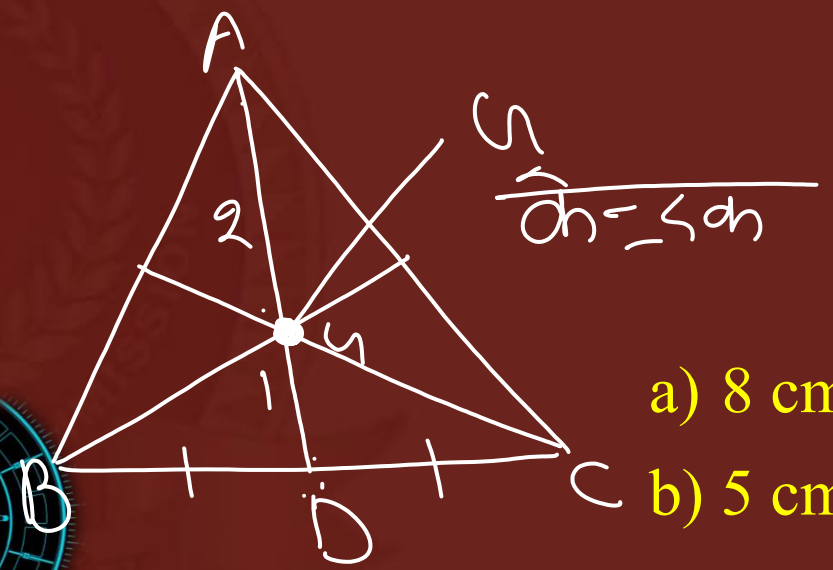
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In ΔABC , if G is the centroid and AD is a median with a length of 9 cm, then the length of AG is:

ΔABC में, यदि G केंद्रक है और AD एक माध्यिका है जिसकी लंबाई 9 सेमी है, तब AG की लंबाई है:

$$AD = 9 \text{ cm}$$
$$AG = 6$$



- a) 8 cm
- b) 5 cm
- c) 7 cm
- d) 6 cm



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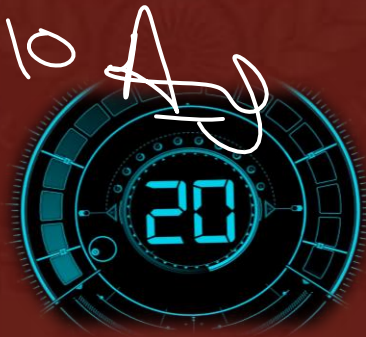
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The average of 10 observations is 21. A new observation is included and the average of these 11 numbers is 1 less than the previous average. The 11th observation is _____.

10 अवलोकनों का औसत 21 है। एक नया अवलोकन शामिल किया गया है और इन 11 संख्याओं का औसत पिछले औसत से 1 कम है। 11वां प्रेक्षण _____ है।

$$11 \times 20 - 10 \times 21$$
$$220 - 210 = 10$$



- a) 21
- b) 11
- c) 10
- d) 12



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Which of the following is the least 6-digit number that is divisible by 93?

निम्नलिखित में से कौन सी 6 अंकों की सबसे छोटी संख्या है जो 93 से विभाज्य है?

$$93 = 3 \times 31$$

Divisibility of 31
100068 ✓

① $10006 - 24 = 9982$ ✓

② $998 - 6 = 992$

③ $99 - 6 = 93$ is div. 31



- a) 100068 ✓
- b) 100070 X
- c) 100075 X
- d) 100065 ✓



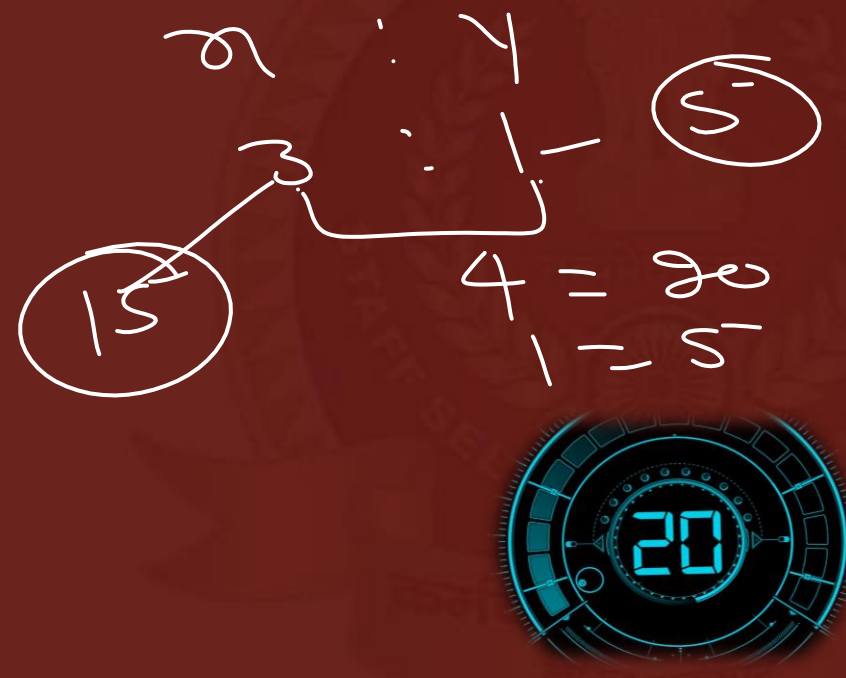
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A number x is three times another number y . If the sum of both the numbers is 20, then x and y , respectively, are:

एक संख्या x दूसरी संख्या y की तीन गुनी है। यदि दोनों संख्याओं का योग 20 है, तो x और y क्रमशः हैं:



- a) 8 and 12 ~~X~~
- b) 15 and 5**
- c) 5 and 15 ~~X~~
- d) 2 and 18 ~~X~~



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A person could save 20% of his income. A year later, his income increased by 25% but he could save the same amount only as before. By what percentage has his expenditure increased?

एक व्यक्ति अपनी आय का 20% बचा सकता है। एक वर्ष बाद, उसकी आय में 25% की वृद्धि हुई लेकिन वह उतनी ही राशि पहले की तरह ही बचा सका। उसके व्यय में कितने प्रतिशत की वृद्धि हुई है?

Income	Exp	Saving
100	80	20
125	105	20



$$\frac{25}{80} \times 100 = \frac{125}{4} = 31.25\%$$

- a) 27.5%
- b) 32.5%
- c) 31.25%
- d) 29.75%



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The marked price of a table fan is ₹3,750 and is available to the retailer at a discount of 20%. At what price should the retailer sell it to earn a profit of 15%?

एक टेबल फैन का अंकित मूल्य ₹3,750 है और खुदरा विक्रेता को 20% की छूट पर उपलब्ध है। 15% का लाभ अर्जित करने के लिए खुदरा विक्रेता को इसे किस कीमत पर बेचना चाहिए?

$$CP = 3750 \times \frac{80}{100} = \underline{3000}$$

$$SP = 3000 \times \frac{115}{100} = \underline{\underline{3450}}$$



- a) ₹3,350
- b) ₹3,400
- c) ₹3,300
- d) ₹3,450



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Ravi drove for 4 hours at a speed of 70 miles per hour and for 2 hours at 40 miles per hour. What was his average speed (in miles per hour) for the whole journey?

रवि 70 मील प्रति घंटे की गति से 4 घंटे और 40 मील प्रति घंटे की गति से 2 घंटे गाड़ी चलाता है। पूरी यात्रा में उसकी औसत गति (मील प्रति घंटे में) क्या थी?

$$\frac{280 + 80}{6} = \frac{360}{6}$$

= 60 m/h.



a) 50

b) 60

c) 55

d) 45



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What is the height of a solid right circular cylinder whose radius is 3 cm and total surface area is 60π cm²?

एक ठोस लम्ब वृत्तीय बेलन की ऊँचाई क्या है जिसकी त्रिज्या 3 सेमी और कुल पृष्ठीय क्षेत्रफल 60π सेमी² है?

H.W



a) 3 cm

b) 5 cm

c) 7 cm

d) 9 cm



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