



SSC CHSL 2022-23



MATHS

अंतिम बार

#13

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



📶 **LIVE** | 08:30 PM

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

BANK ONLINE LIVE CLASS

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	<u>60 minutes</u>
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: Language 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.	-	15 Minutes (20 minutes for the candidates eligible for scribe as per Para-8.1 and 8.2)
			Part B: Typing Test for LDC/ JSA.	-	10 Minutes (15 minutes for the candidates eligible for scribe as per Para-8.1 and 8.2)

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@mohit..9476 1 day ago

Thank-you Sir for this Wonderful Class Session..🙏

And

My answer for today's Homework is-
Option C == 7 cm...

Read more

👍 1 🗨 Reply

▼ 🚫 • 1 reply



@vishnugupta8322 1 day ago

Option C-7cm

Very dhashu session sir thank you sir ❤️

👍 1 🗨 Reply

▼ 🚫 • 1 reply



@surbhisinha7315 1 day ago

Homework question answer 🙌 7cm dhamekdar session sir 🙌

👍 1 🗨 Reply

▼ 🚫 • 1 reply



@Ravi.1 21 hours ago

7cm🌿

👍 2 🗨 Reply

▼ 🚫 • 1 reply



@genuine1783 1 day ago

Ans 7 cm . Formula is $2 \times \pi r (h+r) = 60 \times \pi$

👍 1 🗨 Reply

▼ 🚫 • 1 reply



@aishikaghosh9030 1 day ago

OPT C - 7CM

👍 1 🗨 Reply

▼ 🚫 • 1 reply



@wahidakhatun9525 1 day ago

7 cm homework qn

👍 1 🗨 Reply

▼ 🚫 • 1 reply



@farooqui.....7780 20 hours ago

Option C



@aswanikumar6512 1 day ago

TTTTT

👍 1 🗨 Reply

▼ 🚫 • 1 reply



@Beast0951 1 day ago

Option C

👍 1 🗨 Reply

▼ 🚫 • 1 reply



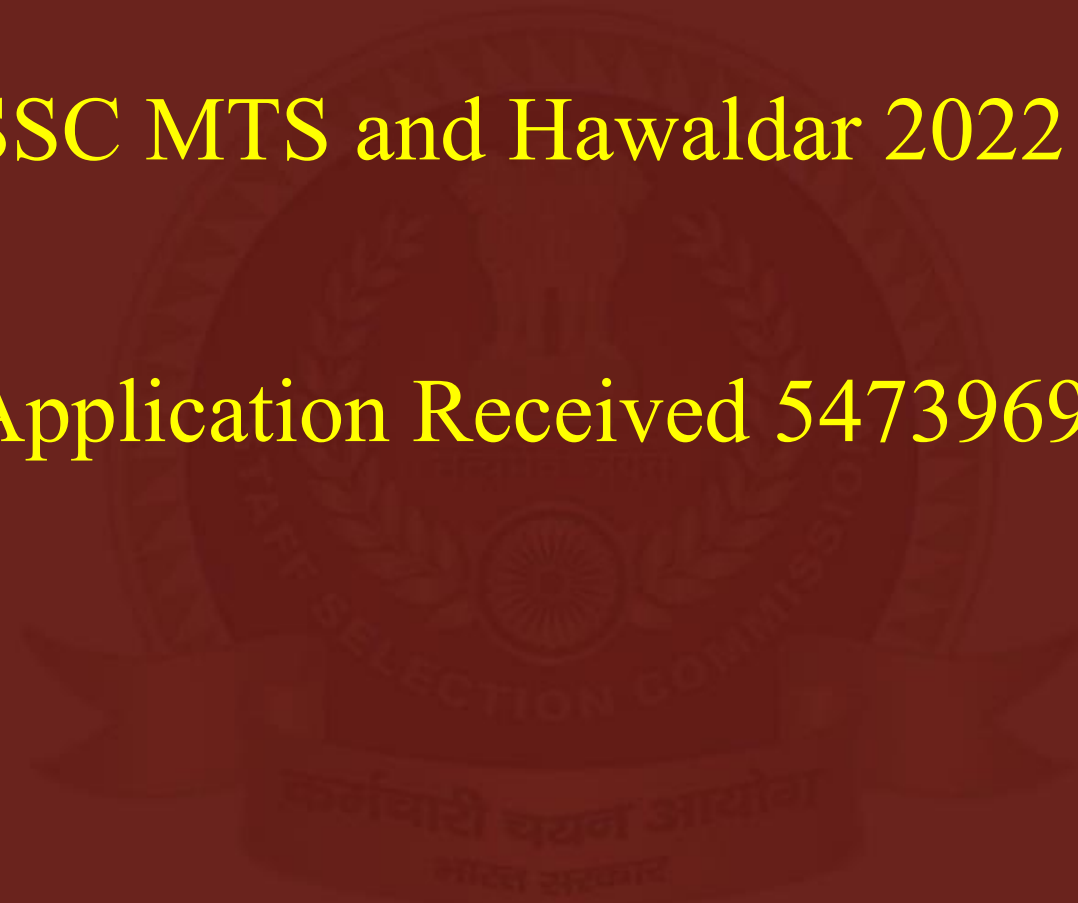
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SSC MTS and Hawaldar 2022

Application Received 5473969





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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?

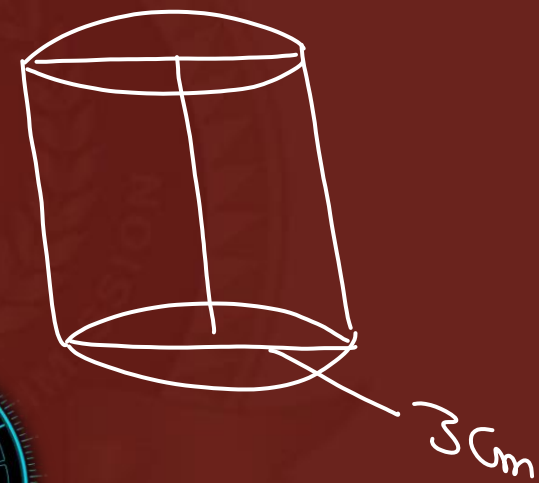
एक ठोस लम्ब वृत्तीय बेलन की ऊँचाई क्या है जिसकी त्रिज्या 3 सेमी और कुल पृष्ठीय क्षेत्रफल 60π सेमी² है?

$$T.S.A = 2\pi r (h+r)$$

$$60\pi = 2\pi r (h+r)$$

$$10 = h+3$$

$$h = 7 \text{ cm}$$



- a) 3 cm
- b) 5 cm
- c) 7 cm
- d) 9 cm





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$$\frac{(62 \times 62 \times 62) - 3(62 \times 62 \times 22) + 3(62 \times 22 \times 22) - (22 \times 22 \times 22)}{8 \times 8 \times 8}$$

$a=62$
 $b=22$

$$(a-b)^3 = a^3 - b^3 - 3ab(a-b)$$

$$\Rightarrow (62)^3 - (22)^3 - 3 \cdot 62 \cdot 22 (62 - 22)$$

a) 225

$$\Rightarrow \frac{(62-22)^3}{8^3} = \left(\frac{40}{8}\right)^3$$

b) 1250



$$= 5^3 = 125$$

c) 125

d) 25



The base of a parallelogram is twice as long as its corresponding height. If the area of the parallelogram is 144 cm^2 , find the mentioned height.

एक समांतर चतुर्भुज का आधार इसकी संगत ऊंचाई से दोगुना लंबा है। यदि समांतर चतुर्भुज का क्षेत्रफल 144 सेमी^2 है, तो उल्लिखित ऊंचाई ज्ञात कीजिए।

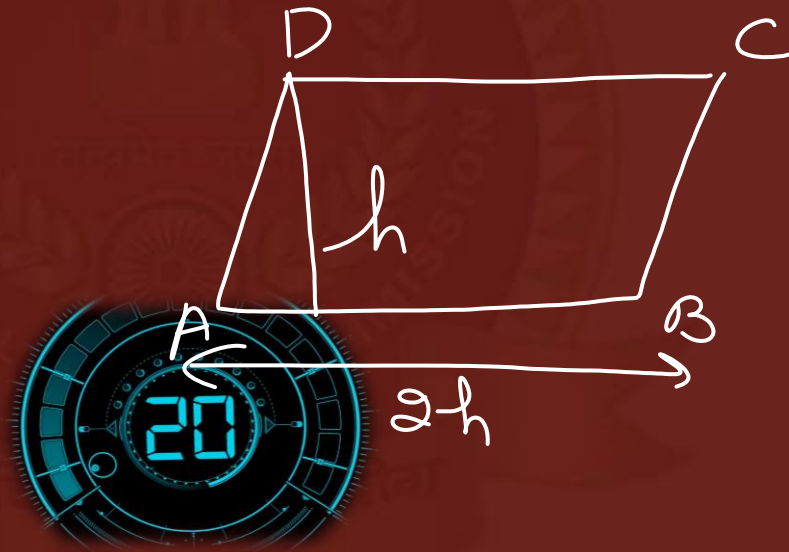
$$A = \text{Base} \times \text{height}$$

$$144 = 2h \times h$$

$$h^2 = 72$$

$$h^2 = 36 \times 2$$

$$h = 6\sqrt{2}$$



a) $2\sqrt{2}$

b) $6\sqrt{2}$

c) $3\sqrt{2}$

d) $8\sqrt{2}$



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What is the mean proportional between 64 and 4096?

64 और 4096 के बीच माध्य समानुपाती क्या है?

64, 4096

$$m = \sqrt{ab}$$

$$m = \sqrt{64 \times 4096}$$

$$m = 8 \times 64 = 512$$

$$\sqrt{4096} = 64 \quad \sqrt{6 \times 7} = 42$$

a) 512

b) 192

c) 128

d) 8





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A and B together can finish a job in 40 days. A can do the same job on her own in 60 days. How long will B take to do the three-fourth of the same work all alone?

A और B मिलकर किसी काम को 40 दिनों में पूरा कर सकते हैं। A उसी कार्य को 60 दिनों में स्वयं कर सकता है। B उसी कार्य का तीन-चौथाई अकेले पूरा करने में कितना समय लेगा?

Handwritten solution:

$$A+B = 40 \text{ days} \quad \text{Total work} = 120$$

$$A = 60 \text{ days}$$

$$120 \times \frac{3}{4} = 90$$

$$B = \frac{90}{1} = 90 \text{ days}$$

a) 90 days

b) 100 days

c) 80 days

d) 120 days



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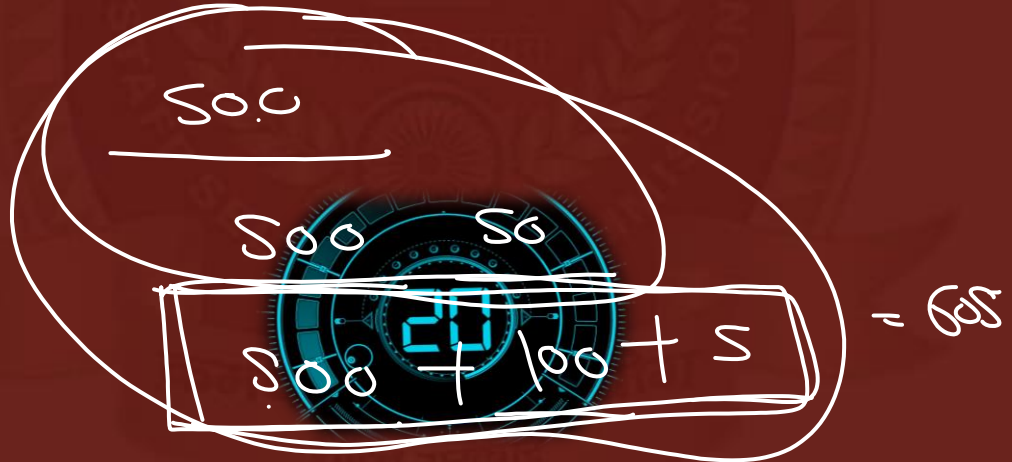
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A sum of ₹5,000 was deposited for 3 years at 10% per annum, compounded annually. The difference between the interest for 2 years and that for 3 years is:

₹5,000 की राशि 3 वर्ष के लिए 10% प्रति वर्ष की दर से जमा की गई, जो वार्षिक रूप से संयोजित होती है। 2 वर्ष के ब्याज और 3 वर्ष के ब्याज के बीच का अंतर है:

Sol $P = 5000$ Rate = 10% = $\frac{1}{10}$ Time = 3 yr



a) ₹560

b) ₹506

c) ₹650

d) ₹605



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If $\cot\theta = \cot 30^\circ \cot 60^\circ$ and θ is an acute angle, then 2θ is equal to:

यदि $\cot\theta = \cot 30^\circ \cot 60^\circ$ और θ एक न्यून कोण है, तो 2θ बराबर है:

$$\cot\theta = \sqrt{3} \times \frac{1}{\sqrt{3}}$$

$$\cot\theta = 1 = \cot 45^\circ$$

$$\theta = 45^\circ$$

$$2\theta = 90^\circ$$



a) 90°

b) 60°

c) 45°

d) 30°



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A shopkeeper mixes three types of rice costing ₹50 per kg, ₹60 per kg and ₹75 per kg in the ratio of 3 : 1 : 2. The average cost of the mixture per kg is:

एक दुकानदार ₹ 50 प्रति किग्रा, ₹ 60 प्रति किग्रा और ₹ 75 प्रति किग्रा की लागत वाले तीन प्रकार के चावलों को 3 : 1 : 2 के अनुपात में मिलाता है। प्रति किग्रा मिश्रण की औसत लागत है:

50 ₹/Kg 60 ₹/Kg 75 ₹/Kg

$150 + 60 + 150 = 360$

Average Cost = $\frac{360}{6} = 60 \text{ ₹/kg}$

a) ₹75

b) ₹65

c) ₹50

d) ₹60



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If $x + 2y = 10$ and $2xy = 9$, then one of the value of $x - 2y$ is:

यदि $x + 2y = 10$ और $2xy = 9$, तो $x - 2y$ का एक मान है:

$a = x$
 $b = 2y$

$$(a-b)^2 = (a+b)^2 - 4ab$$

$$(x-2y)^2 = (x+2y)^2 - 4 \times x \times 2y$$

$$(x-2y)^2 = 100 - 36$$

$$(x-2y)^2 = 64$$

$$x-2y = 8$$

a) 8

b) 6

c) 10

d) 12



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One single discount which is equivalent to 20%, 10% and 5% is given by:

एक एकल छूट जो 20%, 10% और 5% के समतुल्य है, द्वारा दिया जाता है:

Let MRP = 100

$$C.P = 100 \times \frac{80}{100} \times \frac{90}{100} \times \frac{95}{100} = \frac{36 \times 19}{10}$$

08
$$-20 -10 + \frac{20 \times 10}{100} = -28$$

$$-28 -5 + \frac{28 \times 5}{100}$$

$$= \frac{68.4}{10} = 68.4\%$$

$$\text{Dis} = 100\% - 68.4\% = \underline{\underline{31.6\%}}$$



a) 32.60%

b) 32.80%

c) 30.60%

d) 31.60%



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P sold an item to Q at a 20% gain, and Q sold it to R at a loss of 10%. If R bought the item for ₹1,080, then at what price did P purchase it?

P ने एक वस्तु Q को 20% के लाभ पर बेची, और Q ने इसे R को 10% की हानि पर बेचा। यदि R ने वह वस्तु ₹1,080 में खरीदी, तो P ने उसे किस कीमत पर खरीदा?

$$P \times \frac{120}{100} \times \frac{90}{100} = 1080$$

$P = 1000$



a) ₹5000

b) ₹3000

c) ₹1000

d) ₹800



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A householder spent his monthly salary of ₹7,200 on different items. If he spent ₹4,000 on food and ₹400 on education, then the central angles respectively are:

एक गृहस्वामी ने अपना मासिक वेतन ₹ 7,200 विभिन्न मदों पर खर्च किया। यदि वह भोजन पर ₹4,000 और शिक्षा पर ₹400 खर्च करता है, तो केंद्रीय कोण क्रमशः हैं:

$$\begin{array}{r} \text{food} \quad \frac{4000}{7200} \times 360 \\ \hline 200 \end{array}$$

$$\text{Edu} = 20^\circ$$



a) 200°, 20°

b) 50°, 200°

c) 200°, 60°

d) 30°, 60°



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Rice worth ₹96 per kg and ₹104 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth ₹113 per kg, the price of the third variety of rice per kg will be:

₹96 प्रति किग्रा और ₹104 प्रति किग्रा के चावल को एक तीसरी किस्म के साथ 1:1:2 के अनुपात में मिलाया जाता है। यदि मिश्रण का मूल्य ₹113 प्रति किग्रा है, तो तीसरी किस्म के चावल की कीमत प्रति किग्रा होगी:

Let the Cost of third variety Rice = ₹/Kg

$$96 \times 1 + 104 \times 1 + x \times 2 = 113 \times 4$$

$$2x = 452 - 200$$

$$x = \frac{252}{2}$$

$$x = 126 \text{ ₹/kg}$$

a) ₹109

b) ₹126

c) ₹117

d) ₹128



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Successive discounts of 10% and 20% are given on the purchase of a purse . If the price of the purse is ₹2,250, find the selling price.

एक पर्स की खरीद पर क्रमशः 10% और 20% की छूट दी जाती है। यदि पर्स का मूल्य ₹2,250 है, तो विक्रय मूल्य ज्ञात कीजिए।

$$S.P = \cancel{2250}^90 \times \frac{90}{100} \times \frac{80}{100}$$



a) ₹1,520

b) ₹1,290

c) ₹1,320

d) ₹1,620



What is the surface area of a sphere whose diameter is 30 cm?

एक गोले का पृष्ठीय क्षेत्रफल क्या है जिसका व्यास 30 सेमी है?

$$\pi = 3.14$$

$$\begin{aligned} S.A &= 4\pi r^2 \\ &= 4 \times 3.14 \times 15 \times 15 \\ &= 900 \times 3.14 \\ &= 2700 + 126 \\ &= \underline{2826 \text{ cm}^2} \end{aligned}$$

a) 1134 cm²

b) 2826 cm²

c) 1413 cm²

d) 1130 cm²



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Find the compound interest on ₹5,50,000 at 7% per annum for 2 years, compounded annually.

₹5,50,000 पर 7% प्रति वर्ष की दर से 2 वर्ष का चक्रवृद्धि ब्याज ज्ञात कीजिए, जो वार्षिक रूप से संयोजित होता है।

a) ₹80,605

b) ₹62,695

c) ₹79,690

d) ₹79,695





SSC MTS 2022-23



MATHS

SESSION-I

MODEL PAPER

#5

जो बार-बार पूछे जाते है

SHORT TRICK से SOLVE करें

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BY SUNIL MAHENDRAS





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MATHS

अंतिम बार

#14

महा MOCK TEST 
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