

SSC CHSL (Tier - 1) Online Exam Paper - 2018 "held on 10 JULY 2019"

Afternoon Shift (Quantitative Aptitude)

Q1. ABCDEFGH is a regular octagon inscribed in a circle with centre at O. The ratio of $\angle OAB$ to $\angle AOB$ is equal to:

Options:

- 1. 8 : 3
- 2. 3 : 2
- 3. 4 : 3
- 4. 3 : 1

Correct Answer: 3 : 2

2. A borrows a sum of Rs. 2000 from his friend B on 31 December 2011 on the condition that he will return the same after one year with simple interest at 8% per annum. However, A get into a position of returning the money on 1 July 2012. How much amount he has to return to B?

Options:

1. 2088
2. 2200
3. 2070
4. 2080

Correct Answer: 2080

Q3. Θ being an acute angle, it is given that $\sec^2\Theta + 4\tan^2\Theta = 6$. What is the value of Θ ?

Options:

1. 0°
2. 45°
3. 60°
4. 30°

Correct Answer: 45°

Q4. If $a + b - c = 12$ and $a^2 + b^2 + c^2 = 110$, then which among the following relations is true?

- (p) $ab + bc + ca = 34$,
(q) $ab + bc - ca = 17$,
(r) $ab - bc + ca = 17$,
(s) $ab - bc - ca = 17$

Options:

1. (s)
2. (q)
3. (p)
4. (r)

Correct Answer: (s)

Q5. Fill in the Blank.

The average of first 101 _____ numbers is equal to 102.

Options:

1. even
2. odd

- 3. perfect square
- 4. natural

Correct Answer: even

Q6. By selling an article for Rs. 144, a shopkeeper loses 28%. What should be the selling price for bringing down the loss to 14%?

Options:

- 1. 172
- 2. 180
- 3. 176
- 4. 178

Correct Answer: 172

Q7. $a^{1/3} + b^{1/3} + c^{1/3} = 0$, then $(a + b + c)^6$ is equal to:

Options:

- 1. $81 a^2 b^2 c^2$
- 2. $729 abc$
- 3. $729 a^2 b^2 c^2$
- 4. $81 abc$

Correct Answer: $729 a^2 b^2 c^2$

Q8. Which among the following number is exactly divisible by 11, 13 and 7?

- (a) 624613
- (b) 624624
- (c) 624635
- (d) 624646

Options:

- 1. (d)
- 2. (b)
- 3. (a)
- 4. (c)

Correct Answer: (b)

Q9. A shopkeeper normally allows a discount of 10% on the marked price of each article. During a sale season, he decides to give two more discounts, the first being at a rate of 50% of the original and the second at a rate of 40% of the first. What is the percentage rate of the equivalent single discount?

Options:

1. 13.27
2. 16.21
3. 11.25
4. 14.85

Correct Answer: 16.21

Q10. Rs. 10,000/- has to be distributed among 3 craftsmen, 5 helpers and 6 labourers such that each helper receives the amount twice as much as a labourer receives and each craftsman receives the amount thrice as much as a labourer receives. What is the amount received by the three craftsmen?

Options:

1. 4000
2. 2400
3. 2700
4. 3600

Correct Answer: 3600

Q11. The price of sugar got raised by 25%. To maintain the same level of expenses on sugar, a person reduced the consumption of sugar by 4% and also increased his expenditure on sugar by x%. The value of x is:

SSC CHSL (10+2) Printed Study Kit



- 100% CHSL Exam Syllabus Covered
- 5 Books, 1000+ Pages
- 4500+ MCQs
- Solved Papers & Mock Tests (PDF Copy)
- 1 Year Current Affairs (PDF Copy)

50% OFF
~~₹ 4,000/-~~
₹ 1,999/-

FREE SHIPPING

for Exam Help Call Us at: +91 8800734161

SSCPORTAL.IN

What you will get:

- 100% CHSL Exam Syllabus Covered
- 5 Booklets
- More Than 1000+ Pages
- 4500+ MCQs
- Previous Solved Papers
- Current Affairs for Exam
- Guidance & Support from Our Experts

Price of the Kit:

Rs. 4,000

Rs. 1,999/-
(Limited time Offer)

 **Buy Online**

VISA Maestro MasterCard RuPay

Net Banking

Order Online (100% Safe)

[Click here for Other Payment Options \(Cash/NEFT/etc\)](#)

[FOR MORE DETAILS CLICK HERE](#)

50% OFF

Options:

1. 21
2. 19.5
3. 20
4. 18

Correct Answer: 20

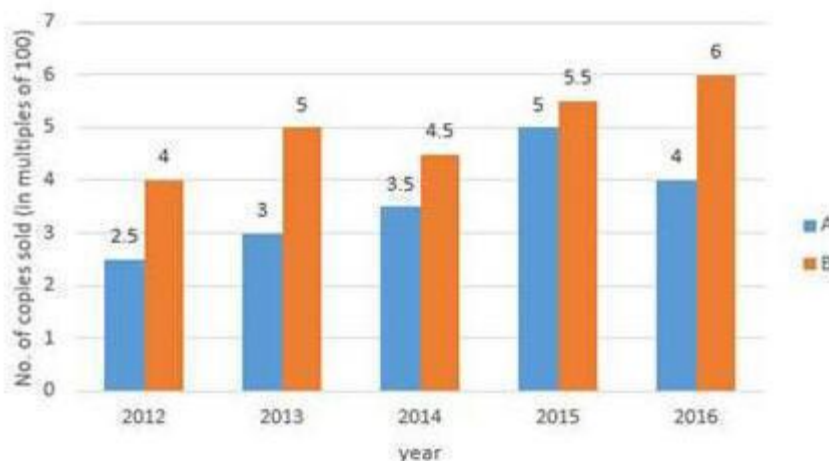
12. If $a + 1/a$, the the value of $(a^6 + 1/a^6)$ is equal to:

Options:

1. 319
2. 780
3. 730
4. 322

Correct Answer: 322

Q13. A book has been co-authored by X and Y. The prices of the book in India and abroad are Rs. 800 and Rs. 1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and Y in the ratio 5 : 3. The given Bar graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-2016).



What is the difference between the royalties earned by X and Y during the years 2014 and 2015 taken together?

Options:

1. 57000
2. 57550
3. 41250
4. 41340

Correct Answer: 57000

Q14. What is the simplified value of $\sin^3 21^\circ + \cos^3 19^\circ / \sin 21^\circ + \cos 19^\circ + \sin^6 20^\circ + \sin^2 71^\circ + 1 / \sin 69^\circ \operatorname{cosec} 71^\circ$ is:

Options:

1. 1
2. 2
3. 3
4. 4

Correct Answer: 2

Q15. The simplified value of $1/2$ of $8/5 \div \{11/5 - (5/16 + 3/5 \times 15/8 \div 2/3)\}$ is:

Options:

1. $1/5$
2. $2/5$
3. 1
4. 4

Correct Answer: 4

Q16. Which among the following is an irrational quantity?

- (a) $\tan 30^\circ \tan 60^\circ$
- (b) $\sin 30^\circ$
- (c) $\tan 45^\circ$
- (d) $\cos 30^\circ$

Options:

1. (b)
2. (d)
3. (a)
4. (c)

Correct Answer: (d)

Q17. It is given that the area of a triangle is A. The values of its perimeter, in radius, circumradius and the average of the lengths of the medians are respectively, p, r, R and d. The ratio $A : p$ is equal to:

Options:

1. $r : 1$
2. $(R : r)^2 : d$
3. $r : 2$
4. $(R - r)^2 : r$

Correct Answer: $r : 2$

Q18. Equilateral triangles are drawn on the hypotenuse and one of the perpendicular sides of a right-angled isosceles triangles. Their areas are H and A respectively. A/H is equal to:

Options:

1. $1/4$
2. $1/\sqrt{2}$
3. $1/2$
4. $1/2\sqrt{2}$

Correct Answer: $1/2$

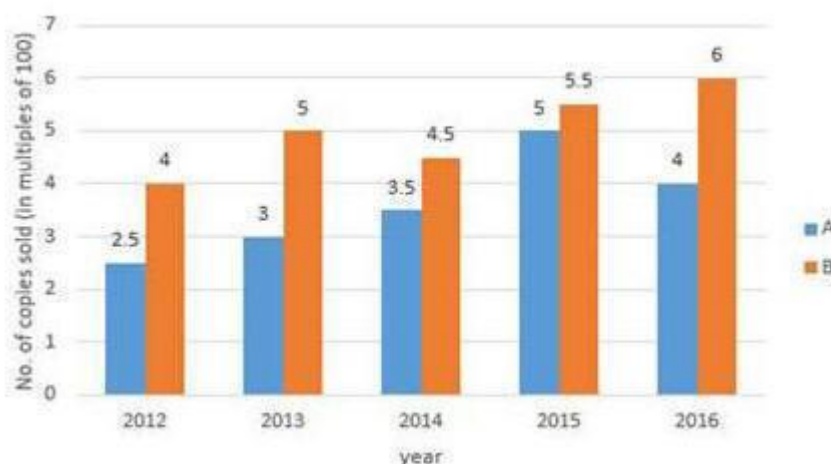
Q19. Given that the lengths of the paths of a ball thrown with different speeds by two boys are the same, if they take 0.6 sec and 1 sec respectively to cover the said length, what is the average speed of travel for the first throw, if the same for the second is 96 km/hr?

Options:

1. 100 km/hr
2. 150 km/hr
3. 160 km/hr
4. 120 km/hr

Correct Answer: 160 km/hr

Q20. A book has been co-authored by X and Y. The prices of the book in India and abroad are Rs. 800 and Rs. 1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and Y in the ratio 5 : 3. The given Bar graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-2016).



What is the total amount of royalty paid to the author during the years 2012, 2013 and 2016?

Options:

1. 272000
2. 273400
3. 316000
4. 271600

Correct Answer: 316000

SSC CHSL(10+2) परीक्षा अध्ययन सामग्री



- 100% CHSL Exam Syllabus Covered
- 5 Books, 900+ Pages
- 2500+ MCQs
- 1 Year Current Affairs (PDF Copy)
- Support & Guidance

50% OFF
~~₹ 4,000/-~~
₹ 1,999/-

FREE SHIPPING

for Exam Help Call Us at: +91 8800734161

SSCPORTAL.IN

आप क्या प्राप्त करेंगे?

- माध्यम: हिन्दी
- 100 प्रतिशत पाठ्यक्रम
- 900 से अधिक पृष्ठ
- 2500 से अधिक वस्तुनिष्ठ प्रश्न
- कुल 5 पुस्तिकाएँ
- अध्यायवार M.C.Q
- गणित एवं तार्किक क्षमता को हल करने की सरल विधि
- 5 अभ्यास प्रश्न पत्र (PDF Copy)
- हमारे विशेषज्ञों द्वारा मार्गदर्शन और सहायता

Price of the Kit:

Rs. 4,200

Rs. 1,999/-

(Limited time Offer)

 **Buy Online**

VISA Maestro MasterCard RuPay

Net Banking

Order Online (100% Safe)

[Click here for Other Payment Options \(Cash/NEFT/etc\)](#)

FOR MORE DETAILS CLICK HERE

50% OFF

Q21. Twelve sticks, each of length 1 unit, are used to form a right - angled triangle. The area of the triangle is:

Options:

1. 6 sq units
2. 4 sq units
3. 10 sq units
4. 8 sq units

Correct Answer: 6 sq units

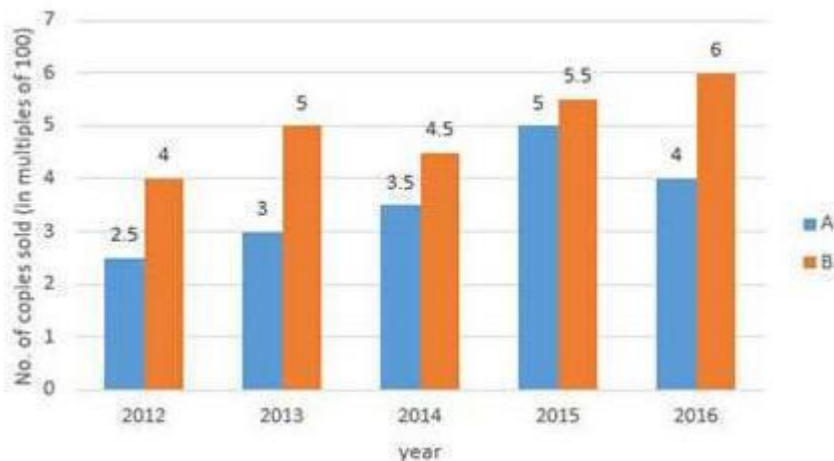
Q22. If 40 men working 12 hrs a day can complete a work in 8 days, then how many men working 4 hrs a day can complete the same work in 16 days?

Options:

1. 54
2. 60
3. 45
4. 50

Correct Answer: 60

Q23. A book has been co-authored by X and Y. The prices of the book in India and abroad are Rs. 800 and Rs. 1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and Y in the ratio 5 : 3. The given Bar graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-2016).



What is the ratio of royalties earned in the following cases - By X for sale of book in India in 2013 and 2014 and by Y for sale of book in Abroad in 2015 and 2016 ?

Options:

1. 62 : 117
2. 63 : 130
3. 64 : 135
4. 65 : 138

Correct Answer: 65 : 138

Q24. Two circles of diameters 2 cm and 5.6 cm are such that the distance between their centre is 8.2 cm. What is the length of a common tangent to the circles that does not intersect the line joining the centre?

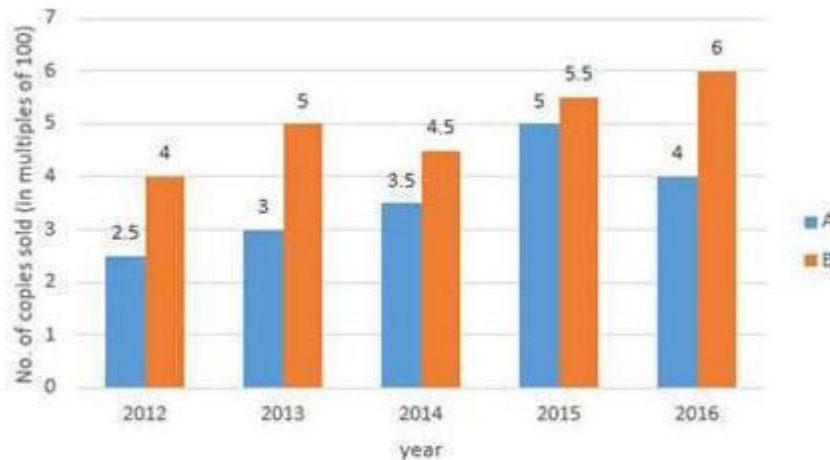
Options:

1. 8 cm
2. 7.2 cm
3. 6.4 cm
4. 8.4 cm

Correct Answer: 8 cm

Q25. A book has been co-authored by X and Y. The prices of the book in India and abroad are Rs. 800 and Rs. 1000

respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and Y in the ratio 5 : 3. The given Bar graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-2016).



What is the total numbers of the copies of the book sold in India during 2012-2015?

Options:

1. 1600
2. 1400
3. 1800
4. 2000

Correct Answer: 1400



Study Material for SSC CGL (Tier-1) Examination	English	CLICK HERE
Study Kit for SSC CGL (Tier-2) Exam	English	CLICK HERE
Study Kit for SSC CHSL (10+2) Examination	English	CLICK HERE
Study Kit for SSC Stenographers (Grade 'C' & 'D')	English	CLICK HERE
Study Kit for Multitasking (Non-Technical) - MTS	English	CLICK HERE
Study Kit for SSC Constables (GD) Exam	English	CLICK HERE
Study Kit For SSC Sub-Inspectors in Delhi Police, CAPFs, CISF	English	CLICK HERE
Study Kit for SSC Junior Engineer Exam (Paper-1)	English	CLICK HERE
IAS EXAMS STUDY MATERIALS		
Study Kit for IAS (Pre) GENERAL STUDIES Paper-1 (GS)	English	CLICK HERE
Study Kit for IAS (Pre) CSAT Paper-2(Aptitude)	English	CLICK HERE
सामान्य अध्ययन (GS) प्रारंभिक परीक्षा (Pre) पेपर-1	हिन्दी	CLICK HERE
आई. ए. एस. (सी-सैट) प्रारंभिक परीक्षा पेपर -2	हिन्दी	CLICK HERE
Gist of NCERT Study Kit For UPSC Exams	English	CLICK HERE
यूपीएससी परीक्षा के लिए एनसीईआरटी अध्ययन सामग्री	हिन्दी	CLICK HERE