SSC CGL 2017 EXAM PAPER : Held on 09-AUG-2017 Shift-3

(Mathematics)

QID : 251 - How many times the keys of a typewriter have to be pressed in order to write numbers from 121 to 1346?

Options:
1) 3675

2) 4018

3) 4021

4) 4025

Correct Answer: 4025

QID : 252 - Sandy and Mandy do $(8/13)^{th}$ part of a work and the rest of the work was completed by Andy. If Sandy, Mandy and Andy take the same work for Rs 2600, then what is the share (in Rs) of Andy?

Options:
1) 1600
2) 1400
3) 800
4) 1000
Correct Answer: 1000

QID : 253 - A solid cone of height 24 cm and radius of its base 8 cm is melted to form a solid cylinder of radius 6 cm and height 6 cm. In the whole process what percent of material is wasted?

Options:
1) 48.5
2) 37.5
3) 57.8
4) 64
Correct Answer: 57.8

QID : 254 - If two successive discounts of 20% and 30% are given, then what is the net discount (in %)?

Options:
1) 40
2) 44
3) 56
4) 60
Correct Answer: 44

QID : 255 - In what ratio sugar at Rs 30/kg should be mixed with sugar at Rs 45/kg so that on selling the mixture at Rs 42/kg there is a profit of 20%?

Options:
1) 2 : 1

2) 2 : 3

3) 5 : 2

4) 3 : 7

Correct Answer: 2 : 1

QID : 256 - Average of 11 numbers is 7. If every number is doubled, then what will be the new average of the numbers?

Options:
1) 3.5
2) 7
3) 10.5
4) 14
Correct Answer: 14

QID : 257 - A trader sold an article at profit of 20%. Had he bought that article at 60% less price and sold it at Rs 90 less, then he would have gained 50%. What is the value (in Rs) of cost price?

Options:
1) 150
2) 200
3) 250
4) 300
Correct Answer: 150

QID : 258 - Amit donated 20% of his income to a school and deposited 20% of the remainder in his bank. If he is having Rs 12800 now, then what is the income (in Rs) of Amit?

Options:
1) 18000
2) 20000
3) 24000
4) 32000
Correct Answer: 20000

QID : 259 - Two trains are moving in the opposite directions at speed of 43 km/h and 51 km/h respectively. The time taken by the slower train to cross a man sitting in the faster train is 9 seconds. What is the length (in metres) of the slower train?

Options:
1) 235
2) 338.4
3) 470
4) 940
Correct Answer: 235

QID : 260 - A certain sum of money amounts to Rs 918 in 2 years and Rs 969 in 3.5 years at simple interest. What is the rate of interest (in %)?

Options:
1) 4

2) 5

3) 6

4) 8

Correct Answer: 4

QID : 261 - If $4^{(x+y)} = 256$ and $(256)^{(x-y)} = 4$, then what is the value of x and y?

Options:
1) 17/8, 15/8
2) 17/4, 15/4
3) 9/17, 15/17
4) 8/17, 8/15
Correct Answer: 17/8, 15/8

QID : 262 - If the expression $px^3 – qx^2 – 7x – 6$ is completely divisible by $x^2 – x – 6$, then what is the value of p and q respectively?

Options:
1) 0, 1
2) 1, 0

SSC CGL Tier-2 Study Kit

- ➢ 100% Syllabus Covered
- ➢ 3 Books , 750+ Pages
- ➢ 2000+ MCQs
- ➢ 5 Mock Practice Tests (PDF Copy)
- ➢ 1 year Current Affairs (PDF Copy)

SPECIAL OFFER

₹ 6,000/-
₹ 1,999/-

>>>> ✋Click Here for More Details CLICK HERE

SSCPORTAL.IN

What you will get:

- ● **100% Syllabus Covered**
- ● **3 Booklets**
- ● **750+ Pages**
- ● **2,000+ MCQs**
- ● **5 Practice Papers also provided**
- ● **One Year Current Affairs (PDF Copy)**
- ● **Guidance & Support from Our Experts**

Price of the Kit:
~~Rs. 6,000~~

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

🛒 Buy **Online**

VISA Maestro MasterCard RuPay

Net Banking

CLICK HERE FOR MORE DETAILS

Order Online (100% Safe)

Click here for Other Payment Options (Cash/NEFT/etc)

50% OFF

CLICK HERE

3) 2, 1
4) 1, 2
Correct Answer: 1, 0

QID : 263 - If the expression $px^3 - 2x^2 - qx + 18$ is completely divisible by $(x^2 - 9)$, then what is the ratio between p and q respectively?

Options:
1) 1:9
2) 1:3
3) 3:1
4) 9:1
Correct Answer: 1:9

QID : 264 -

If $x + \dfrac{1}{x} = 5$, then what is the value of $x^5 + \dfrac{1}{x^5}$?

यदि $x + \dfrac{1}{x} = 5$, तो $x^5 + \dfrac{1}{x^5}$ का मान क्या है?

Options:
1) 1875

2) 2525

3) 2530

4) 3120

Correct Answer: 2525

QID : 265 - In triangle ABC, $\angle$ABC = 90°. BP is drawn perpendicular to AC. If $\angle$BAP = 50°, then what is the value (in degrees) of $\angle$PBC?

Options:
1) 30
2) 45
3) 50
4) 60
Correct Answer: 50

QID : 266 - In triangle PQR, the sides PQ and PR are produced to A and B respectively. The bisectors of $\angle$AQR and $\angle$BRQ intersect at point O. If $\angle$QOR = 50°, then what is the value (in degrees) of $\angle$QPR?
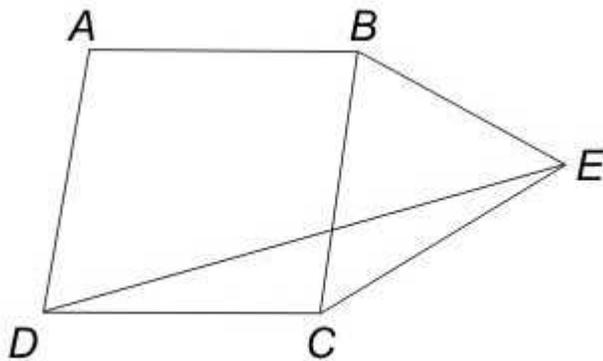
Options:
1) 50
2) 60
3) 80
4) 100
Correct Answer: 80

QID : 267 -

In the given figure, *ABCD* is a rhombus and *BCE* is an isosceles triangle, with $BC = CE$, $\angle CBE = 84°$ and $\angle ADC = 78°$, then what is the value (in degrees) of $\angle DEC$?

दी गई आकृति में, *ABCD* एक समचतुर्भुज है तथा *BCE* एक समद्विबाहु त्रिभुज है, जिसमें $BC = CE$, $\angle CBE = 84°$ तथा $\angle ADC = 78°$ है, तो $\angle DEC$ का मान (डिग्री में) क्या है?
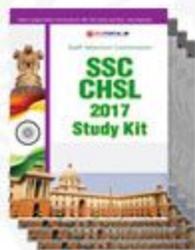

Options:
1) 20

2) 28

3) 33

4) 36

Correct Answer: 33

QID : 268 -

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
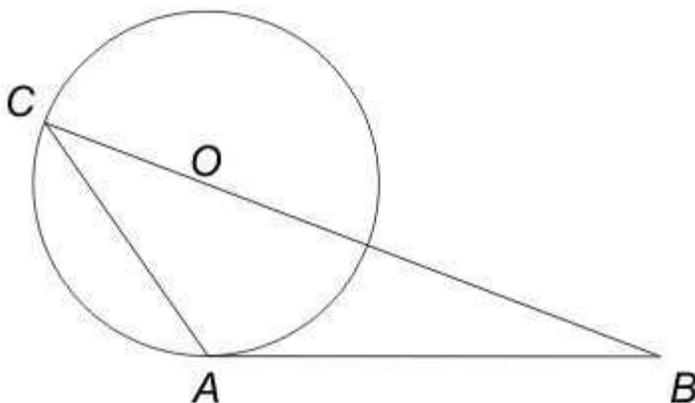Net Banking

Order Online (100% Safe)

Click here for Other Payment Options (Cash/NEFT/etc)

FOR MORE DETAILS CLICK HERE

50% OFF

In the given figure, triangle *ABC* is drawn such that *AB* is tangent to a circle at *A* whose radius is 10 cm and *BC* passes through centre of the circle. Point *C* lies on the circle. If *BC* = 36 cm and *AB* = 24 cm, then what is the area (in cm^2) of triangle *ABC*?

दी गई आकृति में, त्रिभुज *ABC* को इस प्रकार बनाया गया है कि *AB* एक 10 से.मी. त्रिज्या वाले वृत्त की *A* पर स्पर्श रेखा है तथा *BC* वृत्त के केंद्र से होकर गुजरती है। बिंदु *C* वृत्त पर स्थित है। यदि *BC* = 36 से.मी. तथा *AB* = 24 से.मी. हो, तो त्रिभुज *ABC* का क्षेत्रफल (से.मी.^{2} में) क्या है?

Options:
1) 134.5

2) 148

3) 166.15

4) 180

Correct Answer: 166.15

QID : 269 -

What is the simplified value of $\left(\dfrac{2}{\cot \frac{A}{2} + \tan \frac{A}{2}} \right)$?

$\left(\dfrac{2}{\cot \frac{A}{2} + \tan \frac{A}{2}} \right)$ का सरलीकृत मान क्या है?

Options:
1) sin A

2) cos A/2

3) $\cos^2$ A

4) 2 sin A/2

Correct Answer: sin A

QID : 270 -

What is the simplified value of $\left(\dfrac{1}{\sec A + \tan A} \right)^2$?

$\left(\dfrac{1}{\sec A + \tan A} \right)^2$ का सरलीकृत मान क्या है?

Options:
1) sec A + tan A

2) sin A cos A

3) (1 – sin A)/(1 + sin A)

4) (1 – cos A)/(1 + cos A)

Correct Answer: (1 – sin A)/(1 + sin A)

QID : 271 - What is the simplified value of $(\text{cosec}^4\ A - \cot^2\ A) - (\cot^4\ A + \text{cosec}^2\ A)$?
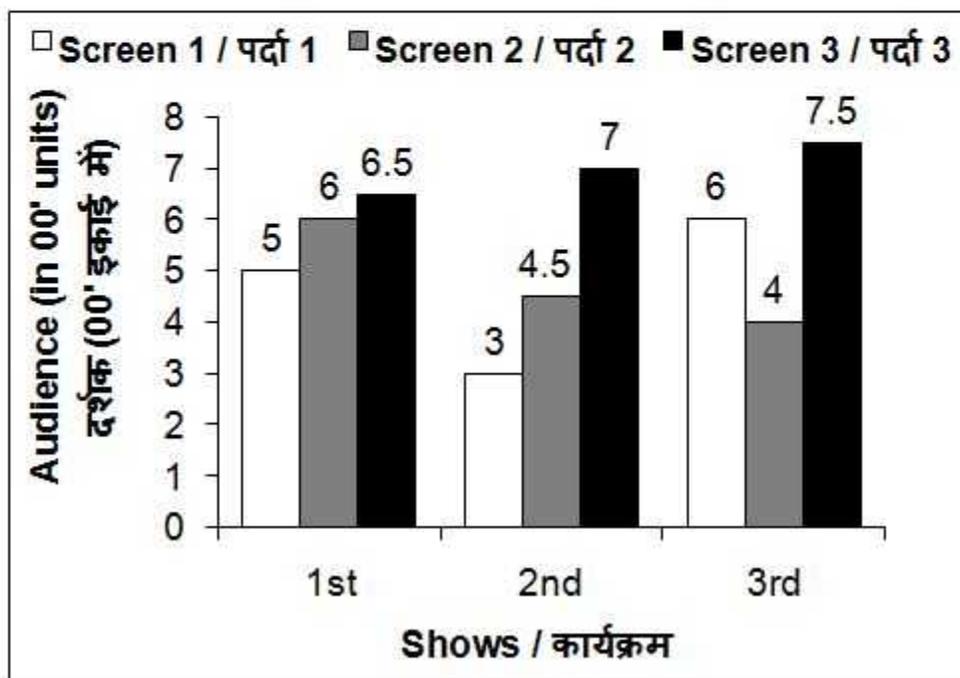
Options:

1) 0

2) 5

3) 6

4) 9

Correct Answer: 0

QID : 272 -

The bar chart given below shows the number of audience in a multiscreen theatre for 3 shows.

नीचे दिए गए दण्ड चित्र में एक बहुपर्दे वाले सिनेमाघर में 3 कार्यक्रमों के लिए दर्शकों की संख्या को दर्शाया गया है।
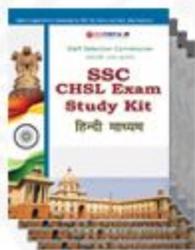

What is the percentage increase in the number of audience in Screen 1 from second show to third show?

Options:
1) 50
2) 100
3) 120
4) 150

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/-

for Exam Help Call Us at: +91 8800734161

FREE SHIPPING

SSCPORTAL.IN

आप क्या प्राप्त करेंगे?

- माध्यमः हिन्दी
- 100 प्रतिशत पाठयक्रम
- 900 से अधिक पृष्ठ
- 2500 से अधिक वस्तुनिष्ठ प्रश्न
- कुल 5 पुस्तिकायें
- 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)
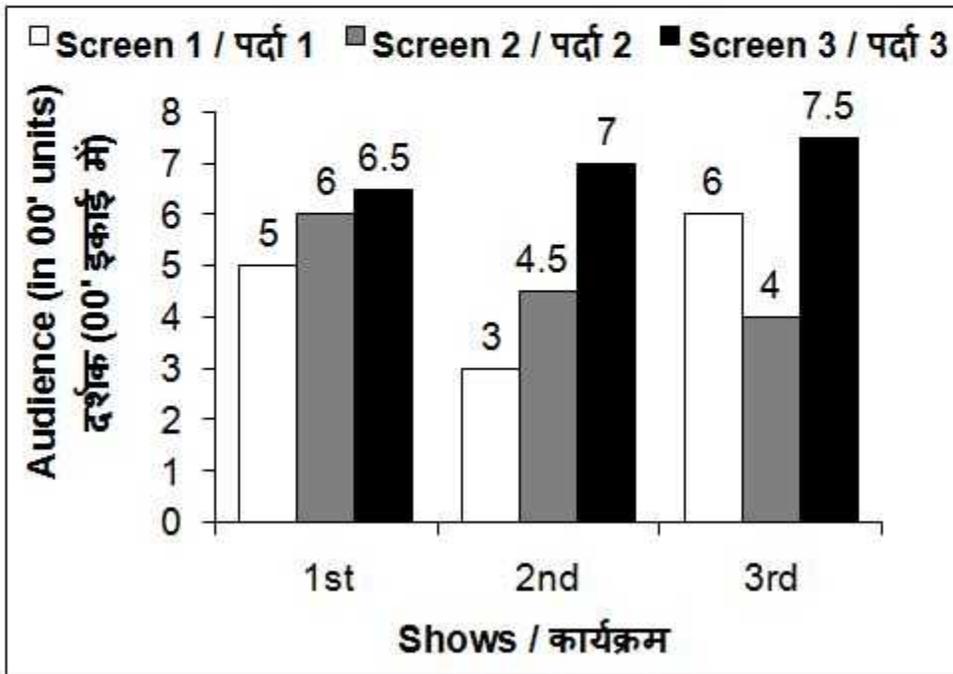
FOR MORE DETAILS CLICK HERE

50% OFF

Correct Answer: 100

QID : 273 -

The bar chart given below shows the number of audience in a multiscreen theatre for 3 shows.

नीचे दिए गए दण्ड चित्र में एक बहुपर्दे वाले सिनेमाघर में 3 कार्यक्रमों के लिए दर्शकों की संख्या को दर्शाया गया है।

For the second show the number of audience in Screen 3 is how much more than the number of audience in Screen 1 ?
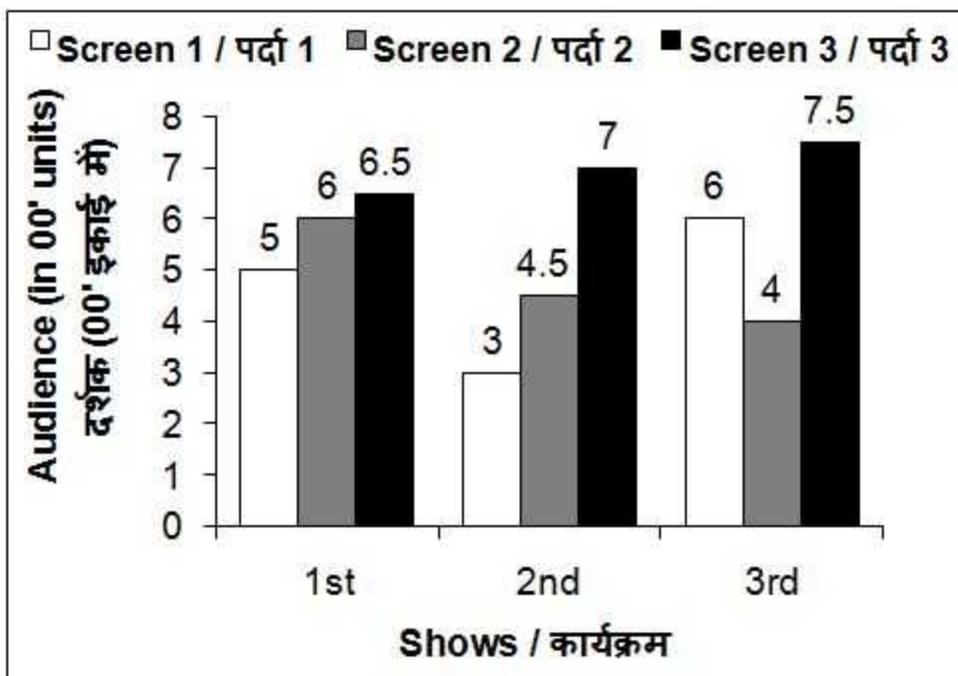
Options:
1) 500
2) 350
3) 400
4) 450
Correct Answer: 400

QID : 274 -

The bar chart given below shows the number of audience in a multiscreen theatre for 3 shows.

नीचे दिए गए दण्ड चित्र में एक बहुपर्दे वाले सिनेमाघर में 3 कार्यक्रमों के लिए दर्शकों की संख्या को दर्शाया गया है।

What is the percentage increase in the total number of audience from second show to third show?
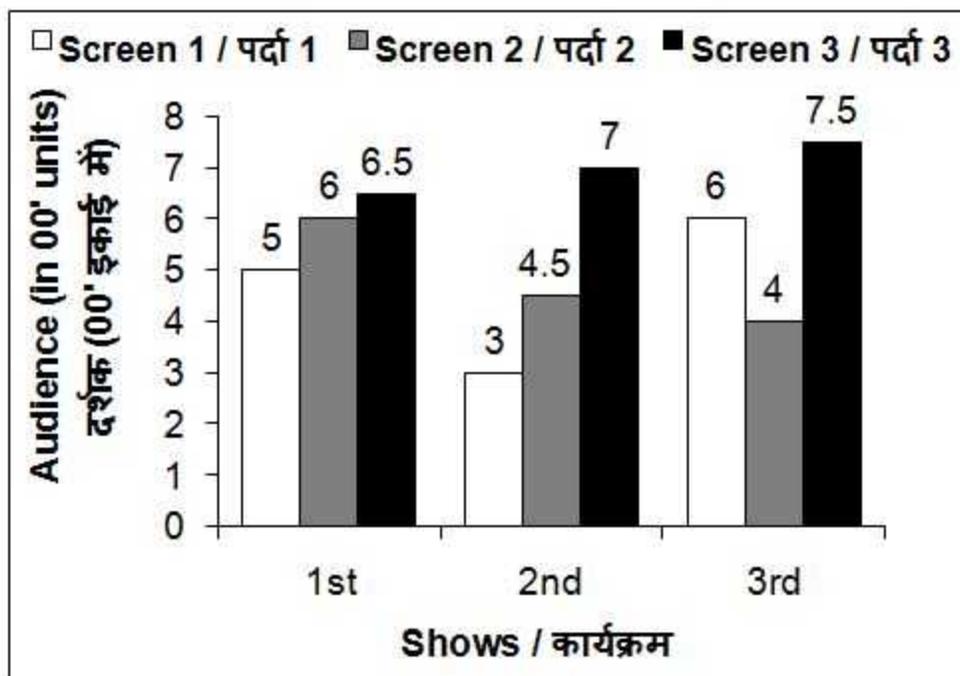
Options:
1) 20.69

2) 25.13

3) 22.24

4) 18.15

Correct Answer: 20.69

QID : 275 -

The bar chart given below shows the number of audience in a multiscreen theatre for 3 shows.

नीचे दिए गए दण्ड चित्र में एक बहुपर्दे वाले सिनेमाघर में 3 कार्यक्रमों के लिए दर्शकों की संख्या को दर्शाया गया है।
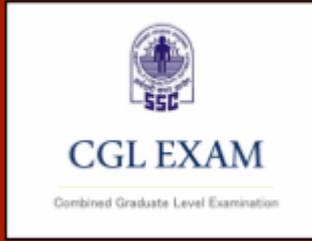

If the tickets for Screen 1, Screen 2 and Screen 3 are Rs 350, Rs 300 and Rs 250 respectively, then which screen has the maximum total revenue for three shows?

Options:
1) Screen 1

2) Screen 1 and Screen 3

3) Screen 2

4) Screen 3

Correct Answer: Screen 3

SSC EXAMS
PRINTED STUDY NOTES

CGL EXAM
Combined Graduate Level Examination

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) प्रांरभिक 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