

SSC CGL 2017 EXAM PAPER : Held on 11-AUG-2017 Shift-2 (Mathematics)

QID : 151 - By what least number should 1200 be multiplied so that it becomes a perfect square?

Options:

- 1) 2
- 2) 3
- 3) 5
- 4) 13

Correct Answer: 3

QID : 152 - A, B and C can complete a work in 10, 12 and 15 days respectively. All three of them starts together but after 2 days A leaves the job and B left the job 3 days before the work was completed. C completed the remaining work alone. In how many days was the total work completed?

Options:

- 1) 5
- 2) 6
- 3) 7
- 4) 8

Correct Answer: 7

QID : 153 - A solid sphere of diameter 7 cm is cut into two equal halves. What will be the increase (in cm^2) in the total surface area ?

Options:

- 1) 77
- 2) 154
- 3) 87
- 4) 38.5

Correct Answer: 77

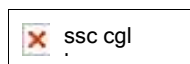
QID : 154 - After a discount of 23% an article is sold for Rs 1848. What is the marked price (in Rs) of the article?

Options:

- 1) 2150
- 2) 2275
- 3) 2350
- 4) 2400

Correct Answer: 2400

QID : 155-



Options:

- 1) 3 : 2 : 5
- 2) 3 : 35 : 14
- 3) 5 : 7 : 5
- 4) 35 : 6 : 15

Correct Answer: 35 : 6 : 15

QID : 156 - What is the average of first 93 natural numbers?

Options:

- 1) 45
- 2) 46
- 3) 47
- 4) 49

Correct Answer: 47

QID : 157 - A trader sells two items at the rate of Rs 400 each. If he gains 15% on one and losses 15% on other, then what is the value (in Rs) of loss ?

Options:

- 1) 18.41
- 2) 22.14
- 3) 20.25
- 4) 24.36

Correct Answer: 18.41

QID : 158 - 30% of a number exceeds 25% of the same number by 27. What is the value of the number?

Options:

- 1) 540
- 2) 270
- 3) 108

4) 90

Correct Answer: 540

QID : 159 - 37 trees are planted in a straight line such that distance between any two consecutive trees is same. A car takes 20 seconds to reach the 13th tree. How much more time (in seconds) will it take to reach the last tree?

Options:

1) 36

2) 40

3) 57

4) 60

Correct Answer: 40

QID : 160 - If a certain sum of money doubles itself in 7 years 8 months at simple interest, then what will be the yearly rate of interest (in %)?

Options:

1)

ssc cgl

2)

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3)

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4) 30

Correct Answer:

QID : 161 -

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Options:

1) 0

2) 1

3) $x^{(p-q)}$

4) $x^{(p+q)}$

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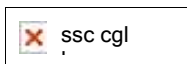
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Correct Answer: 1

QID : 162 -

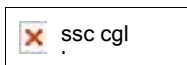


Options:

- 1) $2 \cdot 5$
- 2) $2 \cdot 3$
- 3) $(3 \cdot 5 + 3)/2$
- 4) $(3 \cdot 3 - 5)/2$

Correct Answer: $(3 \cdot 5 + 3)/2$

QID : 163 -

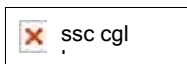


Options:

- 1) a
- 2) $1/a$
- 3) $a + 1$
- 4) $a - 1$

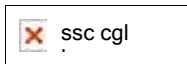
Correct Answer: a

QID : 164 -

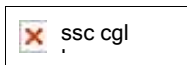


Options:

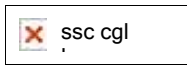
- 1)



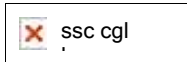
- 2)



- 3)



4)



Correct Answer:

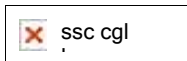
QID : 165 - PQRS is a square, M is the mid-point of PQ and N is a point on QR such that NR is two-third of QR. If the area of $\triangle MQN$ is 48cm^2 , then what is the length (in cm) of PR ?

Options:

- 1) $12\sqrt{2}$
- 2) 12
- 3) 24
- 4) $24\sqrt{2}$

Correct Answer: $24\sqrt{2}$

QID : 166 -

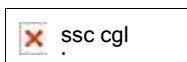


Options:

- 1) 9
- 2) 12
- 3) 15
- 4) 18

Correct Answer: 15

QID : 167 -

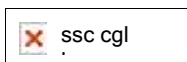


Options:

- 1) 23
- 2) 37
- 3) 47
- 4) 57

Correct Answer: 47

QID : 168 -



Options:

- 1) 34
- 2) 51
- 3) 68
- 4) 85

Correct Answer: 51

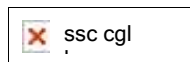
QID : 169 - What is the simplified value of $(1 - \sin A \cos A)(\sin A + \cos A)$?

Options:

- 1) $\sin^2 A - \cos^2 A$
- 2) $\sin^3 A + \cos^3 A$
- 3) 0
- 4) $\cos^2 A - \sin^2 A$

Correct Answer: $\sin^3 A + \cos^3 A$

QID : 170 -

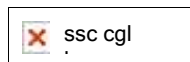


Options:

- 1) $\tan A$
- 2) $\sec A$
- 3) $\sec A + \tan A$
- 4) $\sec A - \tan A$

Correct Answer: $\sec A - \tan A$

QID : 171 -



Options:

- 1) $\sin A \cos A$
- 2) $\tan A + \cot A$
- 3) $\sin 2A$
- 4) $\tan A \cot A$

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Correct Answer: $\tan A + \cot A$

QID : 172 -

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What is the average number (approximately) of cars parked per hour from 6 am to 6 pm on the given day?

Options:

1) 80

2) 85

3) 73

4) 78

Correct Answer: 85

QID : 173 -

 ssc cgl

At what time the percentage change in number of parked cars is the maximum?

Options:

1) 9 am to 10 am


2) 12 pm to 1 pm

3) 8 am to 9 am

4) 6 am to 7 am

Correct Answer: 8 am to 9 am

QID : 174 -

 ssc cgl

For how many hours the number of parked cars is less than the average on the given day?

Options:

1) 5

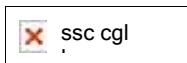
2) 8

3) 6

4) 7

Correct Answer: 8

QID : 175 -



If the charges of parking are Rs 50 per hour, then what is the total income (in Rs) from 6 am to 6 pm on the given day?

Options:

- 1) 55500
- 2) 50500
- 3) 57500
- 4) 59500

Correct Answer: 55500



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