SSC CGL 2017 EXAM PAPER : Held on 16-AUG-2017 Shift-2

(Mathematics)

QID : 151 - For what value of X, 211X will be a perfect square?

Options:

1) 4
2) 5
3) 6
4) 9

Correct Answer: 6

QID : 152 - 2 men or 3 women can complete a job in 96 days. Then 6 men and 7 women will complete the same job in how many days?

Options:

1) 18
2) 27
3) 20
4) 24

Correct Answer: 18

QID : 153 - If the radius of the cylinder is decreased by 20%, then by how much percent the height must be increased, so that the volume of the cylinder remains same?

Options:

1) 20

2) 36.25
3) 56.25
4) 65

Correct Answer: 56.25

QID : 154 - The marked price of an article is 40% more than its cost price. If 15% discount is given on the marked price, then what will be the profit percentage?

Options:

1) 25
2) 15
3) 21
4) 19

Correct Answer: 19

QID : 155 - Three partners A, B and C share profit such that three times the share of A is equal to two times the share of B and equal to 12 times the share of C. What is the ratio of the profits of A, B and C respectively

Options:

1) 3 : 2 : 12
2) 12 : 2 : 3
3) 4 : 6 : 1
4) 1 : 6 : 4

Correct Answer: 4 : 6 : 1

QID : 156 - The average of 8 consecutive natural numbers is 38.5. What is the largest of these 8 numbers?

Options:

1) 41
2) 39
3) 42
4) 45

Correct Answer: 42

QID : 157 - If the cost price of 48 articles is equal to the selling price of 32 articles, then what is the profit percentage?

Options:

1) 20
2) 25

3) 50
4) 75

Correct Answer: 50

QID : 158 - After deducting 12% from a certain sum and then deducting 25% from the remainder, 2508 is left, then what is the initial sum?

Options:

1) 3500
2) 3450
3) 3970
4) 3800

Correct Answer: 3800

QID : 159 - Two trains are moving in the opposite direction at speed of 30 km/hr and 45 km/hr respectively, whose lengths are 450 m and 550 m respectively. What is the time taken (in seconds) by slower train to cross the faster train?

Options:

1) 48
2) 54
3) 62
4) 72

Correct Answer: 48

QID : 160 - A person lent certain sum of money at 10% per annum simple interest. In 20 years the interest amounted to Rs 500 more than the sum lent. What was the sum lent (in Rs)?

Options:

1) 200
2) 500
3) 1000
4) 250

Correct Answer: 500

QID : 161 - If a = 73, b = 74 and c = 75, then what is the value of $a^3 + b^3 + c^3 - 3abc$?

Options:

1) 365
2) 444
3) 666
4) 999

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Correct Answer: 666

QID : 162 - If $x^2 + (1/x^2) = 31/9$ and x > 0, then what is the value of $x^3 + (1/x^3)$?

Options:

1) 70/9
2) 154/27
3) 349/27
4) 349/7

Correct Answer: 154/27

QID : 163 -

Options:

1) 1
2) 2
3) (x – 2)/(x – 1)
4) (x + 3)/(x + 1)

Correct Answer: 1

QID : 164 - If $x – (1/x) = 3$, then what is the value of $(2x^4 + 3x^3 + 13x^2 – 3x + 2) / (3x^4 + 3)$?

Options:

1) 1/3
2) 2/3
3) 4/3
4) 5/3

Correct Answer: 4/3

QID : 165 -

Options:

1) 10
2) 60
3) 100
4) 170

Correct Answer: 100

QID : 166 -

Options:

1) (2 5)/3
2) (3 2)/5
3) (3 5)/2
4) (2 3)/5

Correct Answer: (3 5)/2

QID : 167 -   PQR has sides PQ and PR measuring 983 and 893 units respectively. How many such triangles are possible with all integral sides?

Options:

1) 1876
2) 90
3) 1785
4) 1786

Correct Answer: 1785

QID : 168 -

Options:

1) 15
2) 18
3) 20
4) 21

Correct Answer: 18

QID : 169 - What is the simplified value of sec6 A – tan6 A – 3 sec2 A tan2 A?

Options:

1) –1
2) 0
3) 1
4) sec A tan A

Correct Answer: 1

QID : 170 - What is the simplified value of (cosec A – sin A)(sec A – cos A)(tan A + cot A)?

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Options:

1) –1
2) 0
3) 1
4) 2

Correct Answer: 1

QID : 171 - What is the simplified value of (cos4 A – sin4 A)?

Options:

1) 0
2) 2 cos2 A
3) cos 2A
4) 1

Correct Answer: cos 2A

QID : 172 -

How many runs has the player scored against Pakistan?

Options:

1) 272
2) 192
3) 256
4) 144

Correct Answer: 192

QID : 173 -

The difference between the runs scored against England and Pakistan is same as the difference between which of the following two countries?

Options:

1) South Africa and Sri Lanka
2) South Africa and New Zealand
3) Australia and Sri Lanka
4) Australia and New Zealand

Correct Answer: Australia and New Zealand

QID : 174 -

What is the difference in runs scored by the player against Australia and Sri Lanka?

Options:

1) 256
2) 128
3) 114
4) 80

Correct Answer: 256

QID : 175 -

Difference between the total runs scored against Australia and New Zealand and the total runs scored against Sri Lanka and Pakistan make what sectorial angle (in degrees) in the pie chart?

Options:

1) 90
2) 144
3) 36
4) 72

Correct Answer: 72

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