SSC CGL 2017 EXAM PAPER : Held on 09-AUG-2017 Shift-1

(Mathematics)

QID : 51 -

Which value among $\sqrt[3]{5}$, $\sqrt[4]{6}$, $\sqrt[6]{12}$, $\sqrt[12]{276}$ is the largest?

$\sqrt[3]{5}$, $\sqrt[4]{6}$, $\sqrt[6]{12}$, $\sqrt[12]{276}$ में से सबसे बड़ी संख्या कौन सी है?

Options:
1)

2)

3)

4)

Correct Answer:

QID : 52 - A piece of work was finished by A, B and C together. A and B together finished 60% of the work and B and C together finished 70% of the work. Who among the three is most efficient?

Options:
1) A

2) B

3) C

4) A or B
Correct Answer: C

QID : 53 - Three solid spheres of radius 3 cm, 4 cm and 5 cm are melted and recasted into a solid sphere. What will be the percentage decrease in the surface area?

Options:
1) 12
2) 14
3) 16
4) 28
Correct Answer: 28

QID : 54 - The marked price of a sofa set is Rs 4800 which is sold at Rs 3672 at two successive discounts. If the first discount is 10%, then what will be the second discount (in %)?

Options:
1) 13
2) 14
3) 15
4) 17
Correct Answer: 15

QID : 55 - A, B and C invested amounts in the ratio 3 : 4 : 5 respectively. If the schemes offered compound interest at the rate of 20% per annum, 15% per annum and 10% per annum respectively, then what will be the ratio of their amounts after 1 year?

Options:
1) 3 : 15 : 25
2) 6 : 6 : 5
3) 36 : 46 : 55
4) 12 : 23 : 11
Correct Answer: 36 : 46 : 55

QID : 56 - The average age of 120 members of a society is 60.7 years. By addition of 30 new members, the average age becomes 56.3 years. What is the average age (in years) of newly joined members?

Options:
1) 36.5
2) 37.2
3) 38.3
4) 38.7
Correct Answer: 38.7

QID : 57 - By selling 175 pineapples, the gain is equal to the selling price of 50 pineapples. What is the gain percentage?

Options:
1) 28
2) 30
3) 32
4) 40
Correct Answer: 40

QID : 58 - If A has got 20% more marks than B, then by what percent marks of B are less than the marks of A?

Options:
1) 16.66

2) 20

3) 33.33

4) 14.28
Correct Answer: 16.66

QID : 59 - A train leaves Delhi at 10 a.m. and reaches Jaipur at 4 p.m. on same day. Another train leaves Jaipur at 12 p.m. and reaches Delhi at 5 p.m. on same day. What is the time of day (approximately) when the two trains will meet?

Options:
1) 1:42 p.m.
2) 1:27 p.m.
3) 2:04 p.m.
4) 1:49 p.m.
Correct Answer: 1:49 p.m.

QID : 60 - The difference between the compound interest compounding half yearly for 1 year and the simple interest for 1 year on a certain sum of money lent out at 8% per annum is Rs 64. What is the sum (in Rs)?

Options:
1) 40000
2) 42000
3) 44000
4) 44800
Correct Answer: 40000

QID : 61 - If (x – 2) and (x + 3) are the factors of the equation $x^2 + k_1 x + k_2 = 0$, then what are the values of k_1 and k_2?

Options:
1) k1 = 6, k2 = – 1

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2) k 1 = 1, k 2 = – 6
3) k 1 = 1, k2 = 6
4) k1 = – 6, k2 = 1
Correct Answer: k 1 = 1, k 2 = – 6

QID : 62 - If $(x – y) = 7$, then what is the value of $(x – 15)^3 – (y – 8)^3$?

Options:
1) 0
2) 343
3) 392
4) 2863
Correct Answer: 0

QID : 63 - If $x – y – \sqrt{18} = –1$ and $x + y – 3\sqrt{2} = 1$, then what is the value of $12xy(x^2 – y^2)$?

Options:
1) 0
2) 1
3) 512 √2
4) 612 √2
Correct Answer: 612 √2

QID : 64 - If $p/q = r/s = t/u = \sqrt{5}$, then what is the value of $[(3p^2 + 4r^2 + 5t^2)/(3q^2 + 4s^2 + 5u^2)]$?

Options:
1) 1/5
2) 5
3) 25
4) 60
Correct Answer: 5

QID : 65 - In triangle ABC, a line is drawn from the vertex A to a point D on BC. If BC = 9 cm and DC = 3 cm, then what is the ratio of the areas of triangle ABD and triangle ADC respectively?

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

QID : 66 - PQR is a right angled triangle in which $\angle R = 90°$. If RS ⊥ PQ, PR = 3 cm and RQ = 4 cm, then what is the value of RS (in cm)?

Options:
1) 12/5

2) 36/5

3) 5

4) 2.5
Correct Answer: 12/5

QID : 67 - In triangle PQR, A is the point of intersection of all the altitudes and B is the point of intersection of all the angle bisectors of the triangle. If ∠PBR = 105°, then what is the value of ∠PAR (in degrees)?

Options:
1) 60

2) 100

3) 105

4) 115
Correct Answer: 60

QID : 68 - If there are four lines in a plane, then what cannot be the number of points of intersection of these lines?

Options:
1) 0
2) 5
3) 4
4) 7
Correct Answer: 7

QID : 69 - What is the simplified value of cosec 2A + cot 2A?

Options:
1) sec A
2) sec (A/2)
3) cot A
4) cot2 A
Correct Answer: cot A

QID : 70 - If A = 30°, B = 60° and C = 135°, then what is the value of $\sin^3 A + \cos^3 B + \tan^3 C - 3\sin A \cos B \tan C$?

Options:
1) 0
2) 1
3) 8
4) 9
Correct Answer: 0

QID : 71 - What is the least value of $\tan^2 + \cot^2 + \sin^2 + \cos^2 + \sec^2 + \csc^2$?

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Options:
1) 1

2) 3

3) 5

4) 7
Correct Answer: 7

QID : 72 -

If Mr. Raghav taught a total of 500 hours, then what is the difference in number of hours of teaching algebra and modern Maths?

Options:
1) 15

2) 20

3) 25

4) 40
Correct Answer: 25

QID : 73 -

Mr. Raghav taught Geometry for 36 hours. If the time taken in teaching Ratio consitutes one-fourth of the time for Arithmetic, then for how much time (in hours) did he taught the topic of Ratio?

Options:
1) 46

2) 51.75

3) 69

4) 103.5
Correct Answer: 69

QID : 74 -

If Data Interpretation and Modern Maths were taught for a combined time of 96 hours, then for how much time (in hours) were Number system and Geometry taught?

Options:
1) 136

2) 184

3) 216

4) 232
Correct Answer: 232

QID : 75 -

A new topic named Problem Solving was also introduced and it was decided that 10% time of all topics except Arithmetic will be devoted to it. What will be the central angle (in degrees) made by Problem Solving in the new pie chart?
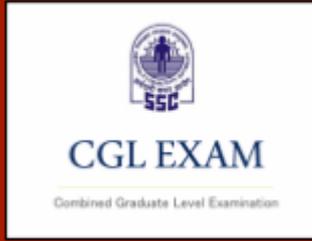
Options:
1) 17.28

2) 18

3) 19.44

4) 36
Correct Answer: 19.44

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