CAT 2021 Slot 1 Answer Key

Q) A girl buys a certain number of pens at a cost price of Rs. 8 Each. She hired a person on wages to sell pens. 100 pens are sold at a pricee of Rs.12 each and the rest of the pens at Rs.11, She earns a profit of 300 and if the rest of the pens are sold at Rs. 9 she earns a loss of Rs.300. Find the wages of the person she hired.
A) Rs. 1,000

Q) A regular hexagon of side 2 cm has the same area as of an equilateral triangle. Find the length of the side of the Equilateral Triangle?
A) $2\sqrt{6}$ cm

Q) A Regular hexagon ABCDEF has a side of 2cm. T is the midpoint of CD. Find the length of AT?
A) AT= $\sqrt{13}$ cm

Q) How many integral values are there of | n-60 | < | n-100 | < | n-20 |?
A) 19

Q) In a right angle triangle ABC with angle B given as 90°, a circle of radius 4 is inscribed in the triangle. If BC = 10, then find the area of the triangle?
A) 120 square units

Q) Find out the range of x for which the expression given below is negative $x^2+2x-15$ / $x^2-7x-18$.
A) $-5<x<-2$ & $3<x<9$

Q) A, B and C can do a piece of work in 12 Days, 15Days and 20 Days Respectively. A works on all days, B works on alternate days starting from the 1st day onwards and C also works on alternate days starting from 2nd Day onwards. How many days A, B and C will take to complete the whole work?
A) 7

Some other questions & solutions that were a part of CAT 2021 Slot 1 Exam were as follows:

1. 198 Difference 3 digit - 70
2. SI/CI - 9318
3. 100x Log question - 99
4. Hexagon side, equilateral triangle - 2 root 6

5. Amar, akhbar, Aman work - 32 days
6. Area of triangle, inradius - 120
7. Onions average - 18.18%
8. Hospital A - 35
9. Fastest to the slowest worker - 11:3
10. Two trains - 190
11. Increase percentage of Chocolate Large Box - 127% (somewhere thereabouts)
12. Salary of worker - 1000
13. Work done by A, B, C alternate - 7
14. F(2021) - 2
15. If and only if negative - two ranges (-5,-2) U (3,9)
16. MOD n-20<MOD n-60 - 19
17. Mangoes - 13
18. Set (1,2,3,4,5) - 6119
19. Exact 3 solutions - R 17
20. Hexagon with Midpoint rRoot - 13