CAT 2022 Slot 3 Memory-based Questions

Ques. If c =16x/y + 49y/x for some nonzero real number x and y , then c cannot take what value?

Ans. -50

Ques. A triangle ABC is given with AB = AC. A circle is drawn by taking BC as diameter and point A on the circumference of the circle. And another circle is drawn with taking A as center point and AB as the radius. What is the area in common with both circles?

Ques. A group of N people worked on a project. They finished 35% of the project by working 7 hours/day for 10 days. Thereafter, 10 people left the group and the remaining people finished the rest of the project in 14 days working 10 hours/day. N=?

Ans. 140

Ques. A glass contains 500 cc of milk and a cup contains 500 cc of water. From glass 150 ml of milk is transformed to the cup and mixed thoroughly. Next 150 cc is transformed from the cup to the glass. Now the amount of water in the glass and the amount of milk in the cup are in the ratio?

Ans. 1:1

Ques. C takes 40 days to finish a piece of work. The speed of B is twice the speed of C and thrice the speed of A. If A and B work on the first day, B and C on the second day, C and A on the third day, how many days in total did A work till the job got completed?

Ques. Two cars when traveling towards each other take 1.5 hrs to meet. When traveling in the same direction, it takes them 10.5 hrs to meet. If the speed of the slower car is 60kmph, how much distance did the slower car travel to meet the other car when traveling towards each other?

Ques. What is the mean of all the numbers that can be formed from 1241?