## CAT 2022 Slot 2 Memory-based Questions

Ques. There were a total of 50 questions in a test. Each contains 1 mark. The student can attempt any question. There were 5 students including amit. It is known that exactly 3 students scored above 32. Amit scored the least no. Of marks. If the average marks of all the 5 students is 38 . Then what can be the maximum difference in the lowest and highest mark that can be scored by Amit?

Ques. There were 4 candidates in an election. $80 \%$ of the registered voters casted their votes. 1 candidate received $30 \%$ of the casted votes and the others 3 received in the ratio 1:2:3. The person who receives the highest no of votes has 2512 more votes than the second highest candidate. What was the total number of registered voters?

Ques. $A+2 B=6$, what's the difference between the maximum and minimum values of $A+B$ ?
Ques. If two polygons have no. of sides in the ratio of 1:2 and the internal angles at 3:4 then how many sides does the larger polygon have?

Ques. There were a total of 75 questions in a test. A person got 97 marks in a test. In this test there were 3 marks for each Correct ans, +1 for unattempted question, -1 for wrong ans. It is known that the number of unattempted questions are more than attempted questions. Then what can be the maximum number of questions he attempted correctly?

Ques. After the meeting, one boat goes South, and another West. 2 hrs after the distance between them is 60 km . If one boat is $6 \mathrm{~km} / \mathrm{hr}$ faster than the other, what is the speed of the slower boat?
Ans. 18 km/hr

Ques. If 25000 ! is divisible by ( n !)!, then what's the maximum value n can take?
Ans. 7

Ques. In triangle $A B C, A D$ and $B E$ altitudes are drawn. If angle $B A C$ is $45^{\circ}$, angle $A B C$ is $x$, what is the ratio of $A D / B E$ ?

Ques. A person invests $1 / 3$ rd of the amount at $6 \%$ interest, $1 / 5$ th at $10 \%$ interest, and the remaining at $1 \%$. All the interest are simple interest. In how many years will the total simple interest equal to the investment (principal)?

Ques. There are two containers of equal volume. The first container is half-filled with alcohol. The second container is half- filled with milk. If $50 \%$ of the content of 1 st container is transferred into the second container and then $50 \%$ of second is transferred into the 1st container. Now Again the $50 \%$ of the first is transferred into the 2nd container. Now what is the ratio of Alcohol to water in the second container?

