

## CAT 2022 Slot 2 Memory-Based Questions

1. After the meeting, one boat goes South, and another West. 2 hrs after the distance between them is 60km. If one boat is 6km/hr faster than the other, what is the speed of the slower boat?
- a) 16 km/hr
  - b) 18 km/hr
  - c) 22 km/hr
  - d) 24 km/hr

Answer Key - 18 km/hr

2. If  $25000!$  is divisible by  $(n!)!$ , then what's the maximum value n can take?
- a) 5
  - b) 6
  - c) 7
  - d) 4

Answer Key - 7

3. In triangle ABC, AD and BE altitudes are drawn. If angle BAC is  $45^\circ$ , angle ABC is x, what is the ratio of AD/BE?
- a)  $\sqrt{2}\sin x$
  - b)  $\sqrt{2}\cos x$
  - c)  $2+3$
  - d)  $3+1/\sqrt{2}$

4.  $A + 2B = 6$ , what's the difference between the maximum and minimum values of A+B?
- a) 4
  - b) 3
  - c) 5
  - d) 6

**5. If two polygons have no. of sides in the ratio of 1:2 and the internal angles at 3:4 then how many side does the larger polygon have?**

**6. A person invest 1/3 rd of amount at 6% interest, 1/5th 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)?**

**7. 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 receive the highest no of votes has 2512 more votes than the second highest candidate. What were the total no of REGISTERED voters?**

**8. 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 no of unattempted questions are more than attempted questions. Then what can be the maximum no of questions he attempted correctly?**

**9. There were a total of 50 questions in a test. Each contains 1 mark. The student can attempt any no of questions. 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?**

**10. 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 1st container is transferred in to second container and then 50% of second is transferred into the 1st container. Now Again the 50% of first is transferred into 2nd container. Now what is the ratio of Alcohol to water in the second container?**

More questions with answer key will be updated here. Stay tuned.