

# ICSE Class 10 Mathematics Question Paper(Memory Based)

Time Allowed :3 Hour	Maximum Marks :60	Total Questions :24
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## General Instructions

Read the following instructions very carefully and strictly follow them:

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during the first 15 minutes
- This time is to be spent in reading the question paper.
- The time given at the head of this Paper is the time allowed for writing the answers,
- The paper has four Sections.
- Section A is compulsory - All questions in Section A must be answered.
- You must attempt one question from each of the Sections B, C and D and one other question from any Section of your choice.

1. A retailer buys a TV from a wholesaler for 20,000 and sells it to a consumer at a 10% profit. If the GST rate is 18%, calculate the total tax paid by the retailer to the Government.

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2. Find the value of  $k$  if  $(x - 3)$  is a factor of the polynomial  $x^3 - kx^2 + 15x - 6$ .

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3. Solve the quadratic equation  $x^2 - 5x - 10 = 0$  and give your answer correct to two decimal places.

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4. In a circle, two chords  $AB$  and  $CD$  intersect internally at  $P$ . If  $AP = 4$  cm,  $PB = 6$  cm, and  $CP = 3$  cm, find the length of  $PD$ .

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5. From the top of a 100 m high cliff, the angle of depression of a boat is  $45^\circ$ . Calculate the distance of the boat from the foot of the cliff.

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6. A bag contains 5 red, 8 white, and 7 black balls. A ball is drawn at random. Find the probability that the ball drawn is neither red nor black.

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