

Bihar Board Class 10 Higher Mathematics (Elective) Question Paper 2026

Time Allowed :3 Hour	Maximum Marks :100	Total Questions :38
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General Instructions

Read the following instructions very carefully and strictly follow them:

1. Section A is compulsory for all candidates and generally includes objective-type questions, short answer questions, and long answer questions from the prescribed syllabus.
2. In Section A, candidates are required to answer all questions. The questions will cover topics from ancient, medieval, and modern history as prescribed by the syllabus.
3. Section B consists of elective questions. Candidates are required to attempt questions from the chosen topic according to the provided options.
4. The questions in Section A will be in the form of multiple-choice, short answer, and essay-type questions.
5. Answers to all questions must be written in neat and legible handwriting. Candidates must adhere strictly to the word limit mentioned in the questions.
6. Use of unfair means or electronic devices during the examination is strictly prohibited.
7. Candidates must ensure that they write their answers in the correct format, following the instructions given for each section.

1. If $540 = 2^x \times 3^y \times 5^z$, find the value of $x + y - z$.

2. Which of the following is an irrational number? (A) 2.3, (B) $\sqrt{13} \times \sqrt{13}$, (C) $\sqrt{441}$

3. Find the HCF of m and n if both are prime numbers.

4. What is the value of $\sin 90^\circ + \cos 0^\circ$?

5. Find the distance of point $P(3, 4)$ from the origin.

6. What is the degree of the polynomial $(x + 3)(x - 8)$?

7. Find the HCF of 36, 54, and 90 using the prime factorization method.

8. Find the zeroes of the polynomial $2x^2 - 6$.

9. Solve the pair of linear equations $4x - 5y = 20$ and $3x + 5y = 15$ using the graphical method.

10. State and prove the Pythagoras Theorem.

11. The difference of squares of two numbers is 180. If the square of the smaller number is 8 times the larger number, find both numbers.
