# NEB-GRADE XI 2076 (2019)

# Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

$$5 \times 3 \times 2 = 30$$

- a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
  - b. If  $f: \Re \rightarrow \Re$  be defined by f(x) = 2x 3, find  $f^{-1}$
  - c. Test the even or odd nature and symmetricity of the function  $y = 8x^2$
- a. Express tan-1x in terms of inverse of sin function.
  - b. Prove by mathematical induction:  $l+3+5+...+(2n-1)=n^2$
  - c. Find the adjoint of the matrix  $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
- 3. a. Using Cramer's rule, solve: 3x + 2y + 9 = 0, 2x 3y + 6 = 0
  - b. Express  $\sqrt{3} + i$  in polar form.
  - c. If one root of the equation  $ax^2 + bx + c = 0$  be twice the other, show that  $2b^2 = 9ac$
- 4. a. Find the equation of the straight line that has y- intercept '2' and is parallel to 4x-8y+3=0
  - Find the equation of the circle which passes through origin and makes equal intercepts on both axes.

c. Evaluate:  $x \to 0$  1-cos nx

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#### **Table of Contents Maths Question Paper 2term And Memo**

- 1. Understanding the eBook Maths Question Paper 2term And Memo
  - The Rise of Digital Reading Maths Question Paper 2term And Memo
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Maths Question Paper 2term And Memo
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Maths Question Paper 2term And Memo
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maths Question Paper 2term And Memo
  - Personalized Recommendations
  - Maths Question Paper 2term And Memo User Reviews and Ratings
  - Maths Question Paper 2term And Memo and Bestseller Lists
- 5. Accessing Maths Question Paper 2term And Memo Free and Paid eBooks

- Maths Question Paper 2term And Memo Public Domain eBooks
- Maths Question Paper 2term And Memo eBook Subscription Services
- Maths Question Paper 2term And Memo Budget-Friendly Options
- 6. Navigating Maths Question Paper 2term And Memo eBook Formats
  - o ePub, PDF, MOBI, and More
  - o Maths Question Paper 2term And Memo Compatibility with Devices
  - Maths Question Paper 2term And Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Maths Question Paper 2term And Memo
  - Highlighting and Note-Taking Maths Question Paper 2term And Memo
  - Interactive Elements Maths Question Paper 2term And Memo
- 8. Staying Engaged with Maths Question Paper 2term And Memo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - o Following Authors and Publishers Maths Question Paper 2term And Memo
- 9. Balancing eBooks and Physical Books Maths Question Paper 2term And Memo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Question Paper 2term And Memo
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Question Paper 2term And Memo
  - Setting Reading Goals Maths Question Paper 2term And Memo
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Question Paper 2term And Memo
  - Fact-Checking eBook Content of Maths Question Paper 2term And Memo
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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