

**Marking Scheme  
Class X Session 2023-24  
MATHEMATICS STANDARD (Code No.041)**

TIME: 3 hours

MAX. MARKS: 80

<b>SECTION A</b>	
	Section A consists of 20 questions of 1 mark each.
1.	(b) $xy^2$
2.	(b) 1 zero and the zero is '3'
3.	(b) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$
4.	(c) 2 distinct real roots
5.	(c) 7
6.	(a) 1:2
7.	(d) infinitely many
8.	(b) $\frac{ac}{b+c}$
9.	(b) $100^\circ$
10.	(d) 11 cm
11.	(c) $\frac{\sqrt{b^2 - a^2}}{b}$
12.	(d) $\cos A$
13.	(a) $60^\circ$
14.	(a) 2 units
15.	(a) 10m
16.	(b) $\frac{4 - \pi}{4}$
17.	(b) $\frac{22}{46}$
18.	(d) 150
19.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)
20.	(c) Assertion (A) is true but reason (R) is false.
<b>SECTION B</b>	
	Section B consists of 5 questions of 2 marks each.
21.	<p>Let us assume, to the contrary, that <math>\sqrt{2}</math> is rational.          So, we can find integers <math>a</math> and <math>b</math> such that <math>\sqrt{2} = \frac{a}{b}</math> where <math>a</math> and <math>b</math> are coprime.</p> <p>So, <math>b\sqrt{2} = a</math>.          Squaring both sides,          we get <math>2b^2 = a^2</math>.</p> <p>Therefore, 2 divides <math>a^2</math> and so 2 divides <math>a</math>.          So, we can write <math>a = 2c</math> for some integer <math>c</math>.          Substituting for <math>a</math>, we get <math>2b^2 = 4c^2</math>, that is, <math>b^2 = 2c^2</math>.          This means that 2 divides <math>b^2</math>, and so 2 divides <math>b</math>.          Therefore, <math>a</math> and <math>b</math> have at least 2 as a common factor.          But this contradicts the fact that <math>a</math> and <math>b</math> have no common factors other than 1.          This contradiction has arisen because of our incorrect assumption that <math>\sqrt{2}</math> is rational.          So, we conclude that <math>\sqrt{2}</math> is irrational.</p>

# 20igcse Maths Mark Scheme

**Michael Haese, Mark Humphries, Chris  
Sangwin, Ngoc Vo**

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### **Table of Contents 20igcse Maths Mark Scheme**

1. Understanding the eBook 20igcse Maths Mark Scheme
  - The Rise of Digital Reading 20igcse Maths Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying 20igcse Maths Mark Scheme
  - 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 20igcse Maths Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from 20igcse Maths Mark Scheme
  - Personalized Recommendations
  - 20igcse Maths Mark Scheme User Reviews and Ratings

- 20igcse Maths Mark Scheme and Bestseller Lists
- 5. Accessing 20igcse Maths Mark Scheme Free and Paid eBooks
  - 20igcse Maths Mark Scheme Public Domain eBooks
  - 20igcse Maths Mark Scheme eBook Subscription Services
  - 20igcse Maths Mark Scheme Budget-Friendly Options
- 6. Navigating 20igcse Maths Mark Scheme eBook Formats
  - ePUB, PDF, MOBI, and More
  - 20igcse Maths Mark Scheme Compatibility with Devices
  - 20igcse Maths Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 20igcse Maths Mark Scheme
  - Highlighting and Note-Taking 20igcse Maths Mark Scheme
  - Interactive Elements 20igcse Maths Mark Scheme
- 8. Staying Engaged with 20igcse Maths Mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 20igcse Maths Mark Scheme
- 9. Balancing eBooks and Physical Books 20igcse Maths Mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 20igcse Maths Mark Scheme
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 20igcse Maths Mark Scheme
  - Setting Reading Goals 20igcse Maths Mark Scheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 20igcse Maths Mark Scheme
  - Fact-Checking eBook Content of 20igcse Maths Mark Scheme
  - Distinguishing Credible Sources

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- 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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