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

TIME: 3 hours

TIME	E: 3 hours MAX.MARKS: 80	
	SECTION A	
200	Section A consists of 20 questions of 1 mark each.	100
1.	(b) xy <sup>2</sup>	1
2.	(b) 1 zero and the zero is '3'	
3.	(b) $\frac{a1}{a2} = \frac{b1}{b2} \neq \frac{c1}{c2}$	
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°	
10.	(d) 11 cm	100
11.	$(c) \frac{\sqrt{b^2 - a^2}}{b}$	3.5
12.	(d) cos A	1 3
13.	(a) 60°	
14.	(a) 2 units	
15.	(a) 10m	
16.	(b) $\frac{4-\pi}{4}$	
17.	(b) $\frac{22}{46}$	
18.	(d) 150	1.3
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.	
	SECTION B	
	Section B consists of 5 questions of 2 marks each.	
21.	Let us assume, to the contrary, that $\sqrt{2}$ is rational. So, we can find integers $a$ and $b$ such that $\sqrt{2} = \frac{a}{b}$ where $a$ and $b$ are coprime. So, b $\sqrt{2} = a$ .	3/
	Squaring both sides, we get $2b^2 = a^2$ . Therefore, 2 divides $a^2$ and so 2 divides a.	5
	So, we can write $a = 2c$ for some integer $c$ . Substituting for $a$ , we get $2b^2 = 4c^2$ , that is, $b^2 = 2c^2$ . This means that 2 divides $b^2$ , and so 2 divides $b$ . Therefore, $a$ and $b$ have at least 2 as a common factor.	3/
	But this contradicts the fact that a and b have no common factors other than 1. This contradiction has arisen because of our incorrect assumption that $\sqrt{2}$ is rational. So, we conclude that $\sqrt{2}$ is irrational.	5

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#### Table of Contents 2014 Maths Mark Scheme

- 1. Understanding the eBook 2014 Maths Mark Scheme
  - The Rise of Digital Reading 2014 Maths Mark Scheme
  - Advantages of eBooks Over Traditional Books
- 2. Identifying 2014 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 2014 Maths Mark Scheme
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from 2014 Maths Mark Scheme
  - Personalized Recommendations
  - 2014 Maths Mark Scheme User Reviews and Ratings
  - 2014 Maths Mark Scheme and Bestseller Lists
- 5. Accessing 2014 Maths Mark Scheme Free and Paid eBooks
  - 2014 Maths Mark Scheme Public Domain eBooks
  - 2014 Maths Mark Scheme eBook Subscription Services

- 2014 Maths Mark Scheme Budget-Friendly Options
- 6. Navigating 2014 Maths Mark Scheme eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - 2014 Maths Mark Scheme Compatibility with Devices
  - 2014 Maths Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2014 Maths Mark Scheme
  - Highlighting and Note-Taking 2014 Maths Mark Scheme
  - Interactive Elements 2014 Maths Mark Scheme
- 8. Staying Engaged with 2014 Maths Mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2014 Maths Mark Scheme
- 9. Balancing eBooks and Physical Books 2014 Maths Mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2014 Maths Mark Scheme
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2014 Maths Mark Scheme
  - Setting Reading Goals 2014 Maths Mark Scheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2014 Maths Mark Scheme
  - Fact-Checking eBook Content of 2014 Maths Mark Scheme
  - 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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