

**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) $xy^2$	1
2.	(b) 1 zero and the zero is '3'	1
3.	(b) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$	1
4.	(c) 2 distinct real roots	1
5.	(c) 7	1
6.	(a) 1:2	1
7.	(d) infinitely many	1
8.	(b) $\frac{ac}{b+c}$	1
9.	(b) $100^\circ$	1
10.	(d) 11 cm	1
11.	(c) $\frac{\sqrt{b^2 - a^2}}{b}$	1
12.	(d) $\cos A$	1
13.	(a) $60^\circ$	1
14.	(a) 2 units	1
15.	(a) 10m	1
16.	(b) $\frac{4-\pi}{4}$	1
17.	(b) $\frac{22}{46}$	1
18.	(d) 150	1
19.	(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)	1
20.	(c) Assertion (A) is true but reason (R) is false.	1
<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.            So, <math>b\sqrt{2} = a</math>.            Squaring both sides,            we get <math>2b^2 = a^2</math>.            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>	<p><math>\frac{1}{2}</math></p> <p><math>\frac{1}{2}</math></p> <p><math>\frac{1}{2}</math></p> <p><math>\frac{1}{2}</math></p>

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**Xiaolong Qi**



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## **Table of Contents May 2014 2a Maths Mark Scheme Edexcel**

1. Understanding the eBook May 2014 2a Maths Mark Scheme Edexcel
  - The Rise of Digital Reading May 2014 2a Maths Mark Scheme Edexcel
  - Advantages of eBooks Over Traditional Books
2. Identifying May 2014 2a Maths Mark Scheme Edexcel
  - 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 May 2014 2a Maths Mark Scheme Edexcel
  - User-Friendly Interface
4. Exploring eBook Recommendations from May 2014 2a Maths Mark Scheme Edexcel

- Personalized Recommendations
  - May 2014 2a Maths Mark Scheme Edexcel User Reviews and Ratings
  - May 2014 2a Maths Mark Scheme Edexcel and Bestseller Lists
5. Accessing May 2014 2a Maths Mark Scheme Edexcel Free and Paid eBooks
- May 2014 2a Maths Mark Scheme Edexcel Public Domain eBooks
  - May 2014 2a Maths Mark Scheme Edexcel eBook Subscription Services
  - May 2014 2a Maths Mark Scheme Edexcel Budget-Friendly Options
6. Navigating May 2014 2a Maths Mark Scheme Edexcel eBook Formats
- ePub, PDF, MOBI, and More
  - May 2014 2a Maths Mark Scheme Edexcel Compatibility with Devices
  - May 2014 2a Maths Mark Scheme Edexcel Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of May 2014 2a Maths Mark Scheme Edexcel
  - Highlighting and Note-Taking May 2014 2a Maths Mark Scheme Edexcel
  - Interactive Elements May 2014 2a Maths Mark Scheme Edexcel
8. Staying Engaged with May 2014 2a Maths Mark Scheme Edexcel
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers May 2014 2a Maths Mark Scheme Edexcel
9. Balancing eBooks and Physical Books May 2014 2a Maths Mark Scheme Edexcel
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection May 2014 2a Maths Mark Scheme Edexcel
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine May 2014 2a Maths Mark Scheme Edexcel
- Setting Reading Goals May 2014 2a Maths Mark Scheme Edexcel
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of May 2014 2a Maths Mark Scheme Edexcel

- Fact-Checking eBook Content of May 2014 2a Maths Mark Scheme Edexcel
- 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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may 10 2016 understanding the extent to which soil microbial communities control ecosystem processes is thus critical to establish effective policies to preserve microbial diversity hotspots and the key

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soil water availability is one of the key factor influencing the survival and growth of plant communities in dry tropical ecosystems khurana and singh 2001 increasing soil water availability promotes the survival and growth rate of juvenile tree seedlings khurana and singh 2004 yavitt and wright 2008