

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

TIME: 3 hours

MAX.MARKS: 80

SECTION A		
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°	1
10.	(d) 11 cm	1
11.	(c) $\frac{\sqrt{b^2 - a^2}}{b}$	1
12.	(d) $\cos A$	1
13.	(a) 60°	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
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, $b\sqrt{2} = a$. Squaring both sides, we get $2b^2 = a^2$. Therefore, 2 divides a^2 and so 2 divides a. 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. 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.	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$

June 2013 Core 2 Maths Mark Scheme

G Psacharopoulos



June 2013 Core 2 Maths Mark Scheme:

The book delves into June 2013 Core 2 Maths Mark Scheme. June 2013 Core 2 Maths Mark Scheme is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into June 2013 Core 2 Maths Mark Scheme, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to June 2013 Core 2 Maths Mark Scheme
- Chapter 2: Essential Elements of June 2013 Core 2 Maths Mark Scheme
- Chapter 3: June 2013 Core 2 Maths Mark Scheme in Everyday Life
- Chapter 4: June 2013 Core 2 Maths Mark Scheme in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of June 2013 Core 2 Maths Mark Scheme. This chapter will explore what June 2013 Core 2 Maths Mark Scheme is, why June 2013 Core 2 Maths Mark Scheme is vital, and how to effectively learn about June 2013 Core 2 Maths Mark Scheme.
3. In chapter 2, the author will delve into the foundational concepts of June 2013 Core 2 Maths Mark Scheme. This chapter will elucidate the essential principles that need to be understood to grasp June 2013 Core 2 Maths Mark Scheme in its entirety.
4. In chapter 3, the author will examine the practical applications of June 2013 Core 2 Maths Mark Scheme in daily life. The third chapter will showcase real-world examples of how June 2013 Core 2 Maths Mark Scheme can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of June 2013 Core 2 Maths Mark Scheme in specific contexts. This chapter will explore how June 2013 Core 2 Maths Mark Scheme is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about June 2013 Core 2 Maths Mark Scheme. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of June 2013 Core 2 Maths Mark Scheme.

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