

**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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**Jicheng Xie**



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