#### 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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