## 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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Learning to Teach Science in the Secondary School Lindsay Hetherington, Luke Graham, Darren Moore, 2024-06-27 Learning to Teach Science in the Secondary School is an indispensable guide to the process practice and reality of learning to teach science in a busy secondary school Written by experienced teachers and expert academics it explores core debates and topics in science education providing practical and insightful advice with research and theory to support your development as a teacher This fully updated fifth edition focuses on the knowledge and skills you will need to develop your science teaching including key approaches to teaching physics chemistry and biology lesson and curriculum planning and assessment There are also new chapters on Safety in science teaching The science of learning for teaching science Mathematics and learning science Science for social justice Inclusive and adaptive science teaching Making use of research practical guidance for science teachers Written with university and school based initial teacher education in mind and including learning objectives lists of useful resources and specially designed tasks in every chapter Learning to Teach Science in the Secondary School offers all student and early career teachers accessible and comprehensive guidance to support the journey of becoming an effective science teacher Validating Technological Innovation David Coniam, Peter Falvey, 2016-04-02 This book discusses Hong Kong s use of onscreen marking OSM in public examinations Given that Hong Kong leads the way in OSM innovation this book has arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders Handbook on Sentencing Policies and Practices in the 21st Century Cassia Spohn, Pauline Brennan, 2019-06-14 Sentencing Policies and Practices in the 21st Century focuses on the evolution and consequences of sentencing policies and practices with sentencing broadly defined to include plea bargaining judicial and juror decision making and alternatives to incarceration including participation in problem solving courts This collection of essays and reports of original research explores how sentencing policies and practices both in the United States and internationally have evolved explores important issues raised by guideline and non guideline sentencing and provides an overview of recent research on plea bargaining in the United States Australia and the United Kingdom Other topics include the role of criminal history in sentencing the past and future of capital punishment strategies for reducing mass incarceration problem solving courts and restorative justice practices Each chapter summarizes what is known identifies the gaps in the research and discusses the theoretical empirical and policy implications of the research findings The volume is grounded in current knowledge about the specific topics but also presents new material that reflects the thinking of the leading minds in the field and that outlines a research agenda for the future This is Volume 4 of the American Society of Criminology s Division on Corrections and Sentencing handbook series Previous

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