

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.	<p>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.</p>	<p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p>

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M. Niss



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Cases of Assessment in Mathematics Education M. Niss, 2013-04-17 The present book *Cases of Assessment in Mathematics Education* is one of two studies resulting from an ICMI Study Conference on Assessment in Mathematics Education and Its Effects The book which is published in the series of ICMI Studies under the general editorship of the President and Secretary of ICMI is closely related to another study resulting from the same conference *Investigations into Assessment in Mathematics Education* Niss 1992 The two books although originating from the same sources and having the same editor emphasize different aspects of assessment in mathematics education and can be read independently of one another While the present book is devoted to presenting and discussing cases of assessment that are actually implemented the other study attempts to critically analyze general and principal aspects of assessment Naturally the content of either book is enriched by the materials and perspectives provided by the other one In order to put this book and its background into context the nature and scope of the ICMI studies are outlined briefly below

Much Promise: Successful Schools in England Barnaby Lenon, 2017-04-24 Barnaby Lenon a former schoolmaster and headmaster who is chair of the Independent Schools Council takes an in depth look at the elements that make up a successful school He examines leading and latest research on school leadership and management looks at how teachers pupils parents and governors can achieve results and puts the spotlight on subjects exam systems and social mobility For his research he visited a number of schools that are achieving outstanding results John Perryn Primary School Acton Tollgate Primary School Newham King Solomon Academy Marylebone Burlington Danes Academy Hammersmith West London Free School Hammersmith Michaela Community School Wembley St Mary Magdalene Academy Islington Dixons Kings Academy Bradford Tauheedul Boys School Blackburn London Academy of Excellence Newham and Brighton College His analysis of their innovations and achievements provides an insight into some of England's most successful schools *The Educational reporter (and science teachers' review)*. ,1869

Mathematics of Data/image Coding, Compression, and Encryption II Mark S. Schmalz, 1999 **the educational times**, 1882 *Flying Magazine*, 2006-08 **The Schoolmaster and Women Teacher's Chronicle**, 1954 **The Illustrated London News**, 1876 United Services and Empire Review, 1860 New York Magazine, 1986-03-24 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine's consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea **Ghana Gazette**, 1959 **The Times Index**, 2009 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement The One Show Art Directors Club (New York, N.Y.), 1975 **School**, 1916 **Gospel Advocate**, 1901 *The Libraries Directory*, 1991 **The Imperial**

Dictionary of Universal Biography ,1863 **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2008 **The Beacon** ,1885 Encyclopedia of the History of Missouri Howard Louis Conard,1901

Whispering the Secrets of Language: An Psychological Journey through **20kssats Maths Mark Scheme**

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