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MATHEMATICS

0580/22

Paper 2 (Extended)

February/March 2021

1 hour 30 minutes

You must answer all the questions on paper.

You will need: Geometrical instruments

#### INSTRUCTIONS

- Answer all questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do not use an erasable pen or correction fluid.
- Do not write in any bar codes.
- You should use a calculator where appropriate.
- You may use tracing paper.
- You must show all necessary working clearly.
- Give any exact numerical answers correct to 3 significant figures, or 3 decimal places for angles in degrees, unless a different level of accuracy is specified in the question.
- For  $\pi$ , use either your calculator value or 3.142.

#### INFORMATION

- The total mark for this paper is 75.
- The number of marks for each question or part question is shown in brackets ( ).

CIE IGCSE MATHEMATICS

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FEB/MAR 2021

SOLVED PAST PAPER

# Maths 2feb March Papers

**Helen M. Wood, Shirley Ward  
Watkins, Ira W. Cotton**



## Maths 2feb March Papers:

**CTET & TETs Previous Years Papers (2021 - 2013) Mathematics and Science (Class 6-8) 2021** Arihant Experts, 2021-06-21

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TABLE OF CONTENT

Solved Paper 2021 2013

*Contents of Contemporary Mathematical Journals*, 1973

*Accounts and Papers of the House of Commons* Great Britain. Parliament. House of Commons, 1817

**Wave Propagation in Drilling, Well Logging and Reservoir Applications** Wilson C. Chin, 2014-09-19

Wave propagation is central to all areas of petroleum engineering e g drilling vibrations MWD mud pulse telemetry swab surge geophysical ray tracing ocean and current interactions electromagnetic wave and sonic applications in the borehole but rarely treated rigorously or described in truly scientific terms even for a single discipline Wilson Chin an MIT and Caltech educated scientist who has consulted internationally provides an integrated comprehensive yet readable exposition covering all of the cited topics offering insights algorithms and validated methods never before published A must on every petroleum engineering bookshelf In particular the book Delivers drillstring vibrations models coupling axial torsional and lateral motions that predict rate of penetration bit bounce and stick slip as they depend on rock bit interaction and bottomhole assembly properties Explains why catastrophic lateral vibrations at the neutral point cannot be observed from the surface even in vertical wells but providing a proven method to avoid them Demonstrates why Fermat s principle of least time used in geophysics applies to non dissipative media only but using the kinematic wave theory developed at MIT derives powerful methods applicable to general attenuative inhomogeneous media Develops new approaches to mud acoustics and applying them to MWD telemetry modeling and strong transients in modern swab surge applications Derives new algorithms for borehole geophysics interpretation e g  $R_h$  and  $R_v$  in electromagnetic wave and permeability in Stoneley waveform analysis and Outlines many more applications e g wave loadings on offshore platforms classical problems in wave propagation and extensions to modern kinematic wave theory These disciplines important to all field oriented activities are not treated as

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**Sessional Papers, Printed by Order of the House of Lords, Or Presented by Royal Command, in the Session ..** Great Britain. Parliament. House of Lords,1921

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**Bulletin of the American Mathematical Society** American Mathematical Society,1941 **Accounts and Papers** Great Britain. Parliament. House of Lords,1817

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### **Table of Contents Maths 2feb March Papers**

1. Understanding the eBook Maths 2feb March Papers
  - The Rise of Digital Reading Maths 2feb March Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths 2feb March Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Maths 2feb March Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths 2feb March Papers
  - Personalized Recommendations

- Maths 2feb March Papers User Reviews and Ratings
- Maths 2feb March Papers and Bestseller Lists
- 5. Accessing Maths 2feb March Papers Free and Paid eBooks
  - Maths 2feb March Papers Public Domain eBooks
  - Maths 2feb March Papers eBook Subscription Services
  - Maths 2feb March Papers Budget-Friendly Options
- 6. Navigating Maths 2feb March Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - Maths 2feb March Papers Compatibility with Devices
  - Maths 2feb March Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maths 2feb March Papers
  - Highlighting and Note-Taking Maths 2feb March Papers
  - Interactive Elements Maths 2feb March Papers
- 8. Staying Engaged with Maths 2feb March Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maths 2feb March Papers
- 9. Balancing eBooks and Physical Books Maths 2feb March Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths 2feb March Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maths 2feb March Papers
  - Setting Reading Goals Maths 2feb March Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths 2feb March Papers
  - Fact-Checking eBook Content of Maths 2feb March Papers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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