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| <b>Pearson Edexcel Level 3 GCE</b>  |                      |                      |                      |                      |                      |                      |                      |
| <b>Thursday 25 May 2023</b>   |                      |                      |                      |                      |                      |                      |                      |
| Afternoon<br>(Time: 1 hour 30 minutes)  |                      |                      |                      | Paper reference      |                      | <b>9FM0/01</b>       |                      |
| <b>Further Mathematics</b><br><b>Advanced</b><br><b>PAPER 1: Core Pure Mathematics 1</b>  |                      |                      |                      |                      |                      |                      |                      |
| <b>You must have:</b><br>Mathematical Formulae and Statistical Tables (Green), calculator |                      |                      |                      |                      |                      | Total Marks          |                      |

Candidates may use any calculator permitted by Pearson regulations. Calculators must not have the facility for algebraic manipulation, differentiation and integration, or have retrievable mathematical formulae stored in them.

#### Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions and ensure that your answers to parts of questions are clearly labelled.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- You should show sufficient working to make your methods clear. Answers without working may not gain full credit.
- Inexact answers should be given to three significant figures unless otherwise stated.

#### Information

- A booklet 'Mathematical Formulae and Statistical Tables' is provided.
- There are 8 questions in this question paper. The total mark for this paper is 75.
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

#### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ➤



# Mark Scheme May 2013 Math 4h

**Marcel A. Müller**



## **Mark Scheme May 2013 Math 4h:**

**Handbook of Approximation Algorithms and Metaheuristics** Teofilo F. Gonzalez, 2018-05-15 Handbook of Approximation Algorithms and Metaheuristics Second Edition reflects the tremendous growth in the field over the past two decades Through contributions from leading experts this handbook provides a comprehensive introduction to the underlying theory and methodologies as well as the various applications of approximation algorithms and metaheuristics Volume 1 of this two volume set deals primarily with methodologies and traditional applications It includes restriction relaxation local ratio approximation schemes randomization tabu search evolutionary computation local search neural networks and other metaheuristics It also explores multi objective optimization reoptimization sensitivity analysis and stability Traditional applications covered include bin packing multi dimensional packing Steiner trees traveling salesperson scheduling and related problems Volume 2 focuses on the contemporary and emerging applications of methodologies to problems in combinatorial optimization computational geometry and graphs problems as well as in large scale and emerging application areas It includes approximation algorithms and heuristics for clustering networks sensor and wireless communication bioinformatics search streams virtual communities and more About the Editor Teofilo F Gonzalez is a professor emeritus of computer science at the University of California Santa Barbara He completed his Ph D in 1975 from the University of Minnesota He taught at the University of Oklahoma the Pennsylvania State University and the University of Texas at Dallas before joining the UCSB computer science faculty in 1984 He spent sabbatical leaves at the Monterrey Institute of Technology and Higher Education and Utrecht University He is known for his highly cited pioneering research in the hardness of approximation for his sublinear and best possible approximation algorithm for k tMM clustering for introducing the open shop scheduling problem as well as algorithms for its solution that have found applications in numerous research areas as well as for his research on problems in the areas of job scheduling graph algorithms computational geometry message communication wire routing etc

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## Adopting the Tune of Expression: An Psychological Symphony within **Mark Scheme May 2013 Math 4h**

In a world taken by monitors and the ceaseless chatter of quick interaction, the melodic beauty and mental symphony produced by the written term frequently fade in to the background, eclipsed by the constant sound and disturbances that permeate our lives. However, situated within the pages of **Mark Scheme May 2013 Math 4h** a charming literary treasure filled with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, that fascinating masterpiece conducts viewers on a mental journey, skillfully unraveling the hidden melodies and profound impact resonating within each cautiously crafted phrase. Within the depths of this emotional analysis, we shall discover the book is main harmonies, analyze their enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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