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PRINT your name on the line below and return this booklet with your answer sheet. Failure to do so may result in disqualification.

**FORM TP 2019089****TEST CODE 01234010****MAY/JUNE 2019**

**CARIBBEAN EXAMINATIONS COUNCIL  
CARIBBEAN SECONDARY EDUCATION CERTIFICATE\*  
EXAMINATION**

**MATHEMATICS**

**Paper 01 – General Proficiency**

*1 hour 30 minutes*

**15 MAY 2019 (p.m.)**

**READ THE FOLLOWING INSTRUCTIONS CAREFULLY.**

1. This test consists of 60 items. You will have 1 hour and 30 minutes to answer them.
2. In addition to this booklet, you should have an answer sheet.
3. A list of formulae is provided on page 2 of this booklet.
4. Each item in this test has four suggested answers lettered (A), (B), (C), (D). Read each item you are about to answer and decide which choice is best.
5. On your answer sheet, find the number which corresponds to your item and shade the space having the same letter as the answer you have chosen. Look at the sample item below.

**Sample Item**

$$2x + 6x =$$

**Sample Answer**

(A)  $8x$   
(B)  $8x^2$   
(C)  $12x$   
(D)  $12x^2$

(B)  (C)  (D)

The best answer to this item is "8x", so (A) has been shaded.

6. If you want to change your answer, erase it completely before you fill in your new choice.
7. When you are told to begin, turn the page and work as quickly and as carefully as you can. If you cannot answer an item, go on to the next one. You may return to that item later.
8. You may do any rough work in this booklet.
9. Calculators and mathematical tables are NOT allowed for this paper.

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**Computational Science and Its Applications - ICCSA 2017** Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra, Giuseppe Borruso,Carmelo M. Torre,Ana Maria A.C. Rocha,David Taniar,Bernady O. Apduhan,Elena Stankova,Alfredo Cuzzocrea,2017-07-18 The six volume set LNCS 10404 10409 constitutes the refereed proceedings of the 17th International Conference on Computational Science and Its Applications ICCSA 2017 held in Trieste Italy in July 2017 The 313 full papers and 12 short papers included in the 6 volume proceedings set were carefully reviewed and selected from 1052 submissions Apart from the general tracks ICCSA 2017 included 43 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality Furthermore this year ICCSA 2017 hosted the XIV International Workshop On Quantum Reactive Scattering The program also featured 3 keynote speeches and 4 tutorials      **Foundations of Ecology** Leslie A. Real,James H. Brown,2012-12-20 Assembled here for the first time in one volume are forty classic papers

that have laid the foundations of modern ecology Whether by posing new problems demonstrating important effects or stimulating new research these papers have made substantial contributions to an understanding of ecological processes and they continue to influence the field today The papers span nearly nine decades of ecological research from 1887 on and are organized in six sections foundational papers theoretical advances synthetic statements methodological developments field studies and ecological experiments Selections range from Connell's elegant account of experiments with barnacles to Watt's encyclopedic natural history from a visionary exposition by Grinnell of the concept of niche to a seminal essay by Hutchinson on diversity Six original essays by contemporary ecologists and a historian of ecology place the selections in context and discuss their continued relevance to current research This combination of classic papers and fresh commentaries makes Foundations of Ecology both a convenient reference to papers often cited today and an essential guide to the intellectual and conceptual roots of the field Published with the Ecological Society of America      **Papers on Mathematical Ecology** ,1986

**Ecology Abstracts** ,1993      **生態學文獻摘要** (Japan),1900      **Ecol Environmental Conservation** Library of Minnesota,1976      **Science Citation Index** ,1994 Vols for 1964 have guides and journal lists      **Bibliographic Guide to the Environment** ,1992      **Radioecology** U.S. Atomic Energy Commission. Division of Biology and

Medicine,1963    *UMAP Modules* ,1982    The Rhodesia Science News ,1967-05    *Ecology* ,1994    **Complex Ecology**  
Bernard C. Patten,Sven Erik Jørgensen,1995 For systems ecologists modelers environmental engineers and theoretical  
ecologists who are interested in mathematics applied to ecology An advanced and up to date treatment of ecological  
complexity emphasizing the need for holistic systems approaches The book provides a compendium of technically oriented  
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