



**CANDIDATE – PLEASE NOTE!**

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**

$2a + 6a =$

- (A)  $8a$
- (B)  $8a^2$
- (C)  $12a$
- (D)  $12a^2$

**Sample Answer**



The best answer to this item is “ $8a$ ”, 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.

**DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.**

III

007

# 13 Mathematics Question Paper Ecol

**Leslie A. Real, James H. Brown**



### 13 Mathematics Question Paper Ecol:

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

Evolutionary Behavioral Ecology David Westneat, Charles W. Fox, 2010-04 Evolutionary Behavioral Ecology presents a comprehensive treatment of the evolutionary and ecological processes shaping behavior across a wide array of organisms and a diverse set of behaviors and is suitable as a graduate level text and as a sourcebook for professional scientists Ecology Abstracts ,1993 Ecol Environmental Conservation Library of Minnesota,1976 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 systems approaches to complexity at all levels of ecological organization presenting microscopic and macroscopic views descriptions of modeling approaches feedback and stability and network approaches to trophic dynamics and optimality issues Ecology ,1994

**Biometrics** ,1981 Emphasizes the role of statistics and mathematics in the biological sciences **Carnivore Behavior, Ecology, and Evolution** John L. Gittleman, 1989 Volume 2 **School Science and Mathematics** ,1922 Ecology: Teacher's ed ,2005 **U.S. Environmental Protection Agency Library System Book Catalog** United States. Environmental Protection Agency. Library Systems Branch, 1974 Includes the monographic collection of the 28 libraries comprising the Library System of the Environmental Protection Agency **Systems Ecology** Howard T. Odum, 1983-03-08 An integrated theoretical and applied introduction to systems ecology that uses energy diagrammatic language to explain basic concepts of systems modelling and simulation Teaches energetics while at the same time dealing with the issues of organization entropy information complexity diversity frequency and power and the ways these determine the nature of real systems Includes analog and digital computer modelling enabling readers without prior programming experience to create

computer models of ecological processes      *Translations from the Scientific Literature* SFCSI Program (U.S.),1974  
*National Union Catalog* ,1980 Includes entries for maps and atlases      *National Union Catalog, 1980* ,1981      **Applied**  
**Ecology Abstracts** ,1979      **Science** John Michels (Journalist),1898      **Subject Catalog** Library of Congress,1975  
**Book catalog of the Library and Information Services Division** Environmental Science Information Center. Library  
and Information Services Division,1977      *Directory of British Scientists* ,1963

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