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

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**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.

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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  
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 complexity emphasizing the need for holistic systems approaches The book provides a compendium of technically oriented  
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