



# ZIMBABWE SCHOOL EXAMINATIONS COUNCIL

General Certificate of Education Advanced Level

## MATHEMATICS

PAPER 3 Mechanics and Statistics

9164/3

NOVEMBER 2015 SESSION

3 hours

Additional materials:

Answer paper

Graph paper

List of Formulae

Scientific calculator

**TIME** 3 hours

### INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer **all** questions.

If a numerical answer cannot be given exactly, and the accuracy required is not specified in the question, then in the case of an angle it should be given to the nearest degree, and in other cases, it should be given correct to 2 significant figures.

If a numerical value for  $g$  is necessary, take  $g = 9.81 \text{ ms}^{-2}$ .

### INFORMATION FOR CANDIDATES

The number of marks is given in brackets [ ] at the end of each question or part question.

The total number of marks for this paper is 120.

Within each section of the paper, questions are printed in the order of their mark allocations and candidates are advised, within each section, to attempt questions sequentially.

The use of a scientific calculator is expected, where appropriate.

You are reminded of the need for clear presentation in your answers.

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**This question paper consists of 8 printed pages.**

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