

~~Republic of Zimbabwe~~ High Sch (4) 22
ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Advanced Level

MATHEMATICS
PAPER 1

9164/1

Monday 3 NOVEMBER 2003

Afternoon

3 hours

Additional materials:

Answer paper

Graph paper

List of formulae

TIME 3 hours

INSTRUCTIONS TO CANDIDATES

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

There is no restriction on the number of questions which you may attempt.

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.

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 420.

Questions are printed in the order of their mark allocations and candidates are advised to attempt questions sequentially.

The use of an electronic calculator is expected, where appropriate.

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

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web tersinmez için $w = q - \Delta u$ $q = 12.4 \text{ kJ}$ $\Delta u = 4.50 \text{ atm}$ basınç altında ve 180°C sıcaklıkta ideal bir gaz $c_v = 1.5R$ adyabatik şartlarda v_1 a tersinir olarak v_2 sabit bir dış basınca karşı 1 atm e kadar genişliyor