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**ZIMBABWE SCHOOL EXAMINATIONS COUNCIL**  
General Certificate of Education Ordinary Level

**MATHEMATICS**  
PAPER 1

4004/1

NOVEMBER 2022 SESSION 2 hours 30 minutes

Candidates answer on the question paper

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web tujuan khusus penelitian ini yaitu untuk menemukan kondisi optimum ssf bksdalam memproduksi bioetanol yang meliputi konsentrasi substrat konsentrasi enzim konsentrasi starter dan waktu penambahan starter saccharomyces cerevisiae serta suhu kecepatan goyangan dan lama inkubasi

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web bioetanol hasil fermentasi kulit nanas waktu fermentasi hari konsentrasi bioetanol yang diperoleh v v konsentrasi inokulum 5 10 15 2 30 09 34 47 32 16 4 41 69 43 10 39 66 6 37 11 32 66 27 44 8 17 71 27 70 23 06 tabel3 1 menunjukkan waktu optimum yang diperoleh untuk memproduksi bioetanol dengan