UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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for the guidance of teachers

0445 DESIGN AND TECHNOLOGY

0445/43

Paper 4 (Systems and Control), maximum raw mark 50

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(c) Addition of second transistor (1) to create a Darlington Pair (1)

[2]



(ii)

Input A	Input B	Output
0	0	0
0	1	1
1	0	1

[3]

[3]





[5]

(ii) The VR of the system is large (1) as the worm (driven gear) has effectively one tooth (1). [2]

(iii) Guitar tuner

[1]



(ii) Joists in a building structure.

[3]