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"3-a-day" A-Level Exam Practice Unit 1 (006)

| 0311 | on 1 | | | | |
|------|--|---------|--------|------|------|
| The | truth table below has two inputs, A and B, and two outputs, S and C. | | LITC | | |
| | | | UTS | | PUTS |
| (i) | Write a logic expression for S in terms of A and B. | A | B | S | C |
| | | 0 | 0 | 0 | 0 |
| | | 0 | 1 | 1 | 0 |
| | [1] | 1 | 0 | 1 | 0 |
| | | 1 | 1 | 0 | 1 |
| (ii) | Write a logic expression for C in terms of A and B. | | | | |
| | | | | | |
| | [1] | | | | |
| | | | | | |
| esti | on 2 | | | | |
| | Use the expressions for S and C to draw a single logic circuit for the | he trut | th tak | ole. | |
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| | on3 | | | | |
| esti | on3 | | | | |
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| | Using the rules for manipulating Boolean expressions simplify the followir | ng: | | | |
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