**CS101 ASSIGNMENT NO 2 SOLUTION FALL 2019**

**QUESTION NO 1:**

Decimal to Binary Conversion of 724

**2 724**

**2 362 - 0**

**2 181 - 0**

**2 90 - 1**

**2 45 - 0**

**2 22 - 1**

**2 11 - 0**

**2 5 - 1**

**2 2 - 1**

**2 1 - 0**

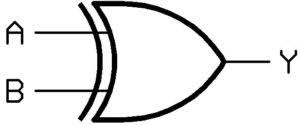
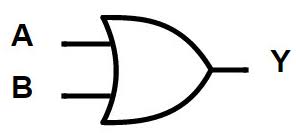
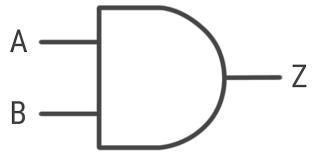
**Binary Conversion of 724 = 0010101101**

**Verification:**

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**QUESTION NO 2:**

**TRUTH TABLE WITH BOOLEAN LOGICAL OPERATIONS**

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**AND GATE PICTURE OR GATE XOR GATE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **A** | **B** | **C** | **A+B** | **A\*C** | **(A+B)C** |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 | 1 |
| 0 | 1 | 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 | 1 |
| 1 | 0 | 1 | 1 | 1 | 0 |
| 1 | 1 | 0 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 | 0 |