

|  | (b) | Design a half adder using NOR - NOR logic also explain the truth table. | 10 |
| :---: | :--- | :--- | :--- | :--- |
| 4 | By applying Thevenin's as well as Norton's theorem show that current flowing through <br> the $16 \Omega$ resistance in the following network is 0.5 A, as shown in figure 2. | 10 |  |

